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- **Acarex test**
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- increase in airway reactivity, and increase in urinary leukotriene E_4 excretion (Taylor et al). 1992;89:575-83
- A comparative study of the effects of an inhaled corticosteroid, budesonide, and a β_2-agonist, terbutaline, on airway inflammation in newly diagnosed asthma: a randomized, double-blind, parallel-group controlled trial (Laitinen et al). 1992;90:32-42
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- Late asthmatic reaction decreased after pretreatment with salbutamol and formoterol, a new long-acting β_2-agonist (Palmqvist et al). 1992;89:844-9
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- Salmeterol, a new inhaled beta$_2$-adrenergic agonist, has a longer blocking effect than albuterol on hyperventilation-induced bronchoconstriction (Malo et al). 1992;89:567-74
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Adrenoceptors; *see* **Receptors, adrenergic**

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- A one-year perspective on MED WATCH: the Food and Drug Administration's new medical products reporting program (Gruchalla). 1995;95:1153-7 (Editorial)

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Aerosol administration; *see* **Administration, inhalation**

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- Delivery of glucocorticoids by jet nebulization: aerosol characteristics and output (Leflein et al). 1995;95:944-9
- Drug delivery characteristics of metered-dose inhalers (Schultz). 1995;96:284-7 (Seminar)
- Effect of solution and suspension type aerosol of formoterol on tremor response and airways in patients with asthma (Bauer et al). 1995;96:495-501
- Fluticasone propionate aerosol for the treatment of adults with mild to moderate asthma (Chervinsky et al). 1994;94:676-83
- Grand Seminar: Asthma and Aerosols. Introduction (Fink). 1995;96:277 (Seminar)
- Guidelines for the diagnosis of asthma. IV. Overview of approaches to asthma therapy. 1991;88:451-9 (Suppl.)
- Identification of soybean dust as an epidemic asthma agent in urban areas by molecular marker and RAST analysis of aerosols (Aceves et al). 1991;88:124-34
- Improper patient techniques with metered dose inhalers: clinical consequences and solutions to misuse (McFadden). 1995;96:278-83 (Seminar)
- Inhaled particles and respiratory disease (Salvaggio). 1994;94:304-9 (Symposium)
- Volatile organic compounds and indoor air (Hodgson et al). 1994;94:296-303 (Symposium)

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- Immunoglobulin deficiency syndromes and therapy (Huston et al). 1991;87:1-17 (CME article)
- Production of factors with B-cell growth and differentiation activities by peripheral blood mononuclear cells from patients with hypogammaglobulinemia (Matheson et al). 1994;93:126-35
- Retrospective analysis of the incidence of pulmonary disease in hypogammaglobulinemia (Sweinberg et al). 1991;88:96-104
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- X-linked agammaglobulinemia presenting as transient hypogammaglobulinemia of infancy (Kornfeld et al). 1995;95:915-7 (Brief comm.)

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- New onset wheezing in an older male population: evidence of allergen sensitization in a longitudinal study (Ohman et al). 1993;91:752-7

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- The effects of season, climate, and air-conditioning on the prevalence of *Dermatophagoides* mite allergens in household dust (Lintner and Brame). 1993;91:862-7
- Particle penetration into the automotive interior. I. Influence of vehicle speed and ventilatory mode (Muilenberg et al). 1991;87:581-5
- The prevalence of *Dermatophagoides* mite allergen in Colorado homes utilizing central evaporative coolers (Ellingson et al). 1995;96:473-9

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- Enhanced human IgE production results from exposure to the aromatic hydrocarbons from diesel exhaust: direct effects on B-cell IgE production (Takenaka et al). 1995;95:103-15
- Latex allergen in respirable particulate air pollution (Williams et al). 1995;95:88-95
- Practice parameters for the diagnosis and treatment of asthma. VII. Special conditions (Nicklas and Spector). 1995;96:821-70
- Respiratory effects of air pollution on allergic disease (Pierson and Koenig). 1992;90:557-66 (Postgrad. course)

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- Air cleaners: a review (Fox). 1994;94:413-6 (Symposium)
- Biological contaminants (Seltzer). 1994;94:318-26 (Symposium)
- Building- and home-related complaints and illnesses: "sick building syndrome" (Ledford and Lockey). 1994;94:275-6 (Symposium)
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- Building-related factors to consider in indoor air quality evaluations (Spaul). 1994;94:385-9 (Symposium)
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- Disability evaluation in building-related health problems (Walsh and Solomon). 1994;94:376-9 (Symposium)
- Environmental control of chemical indoor air quality agents (Spaul). 1994;94:401-3 (Symposium)
- Environmental control of indoor biologic agents (Fernández-Caldas et al). 1994;94:404-12 (Symposium)
- Epidemiology of the sick building syndrome (Apter et al). 1994;94:277-88 (Symposium)
- Host susceptibility to indoor air pollution (Brooks). 1994;94:344-51 (Symposium)
- Identifying and measuring indoor biologic agents (Trudeau and Fernández-Caldas). 1994;94:393-400 (Symposium)
- Indoor air pollution: NO, NO_2, CO, and CO_2 (Alberts). 1994;94:289-95 (Symposium)
- Indoor air quality medicolegal issues (Ross and Lockey). 1994;94:417-22 (Symposium)

- Indoor allergen levels in day nurseries (Dornelas de Andrade et al). 1995;95:1158-63
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Air pollution, tobacco smoke; *see* **Tobacco smoke pollution**

Airborne allergens; *see* **Allergens**

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- Air travel and patients with pulmonary and allergic conditions (Gong). 1991;87:879-85 (Rostrum)

Airway allergy; *see* **Respiratory hypersensitivity**

Airway eosinophils; *see* **Eosinophils**

Airway hypersensitivity; *see* **Respiratory hypersensitivity**

Airway inflammation; *see* **Inflammation**

Airway macrophages; *see* **Macrophages, alveolar**

Airway obstruction
- Effect of a single dose of inhaled salmeterol on baseline airway caliber and methacholine-induced airway obstruction in asthmatic children (Verberne et al). 1993;91:127-34
- Levels of endothelin in the bronchoalveolar lavage fluid of patients with symptomatic asthma and reversible airflow obstruction (Mattoli et al). 1991;88:376-84
- Muscarinic receptors in human airways (White). 1995;95:1065-8
- Natural history of occupational asthma: relevance of type of agent and other factors in the rate of development of symptoms in affected subjects (Malo et al). 1992;90:937-44
- Relationships among allergen-induced early and late phase airway obstructions, bronchial hyperreactivity, and inflammation in conscious, unrestrained guinea pigs (Santing et al). 1994;93:1021-30
- Separate and combined effects of corticosteroids and bronchodilators on airflow obstruction and airway hyperresponsiveness in asthma (Wempe et al). 1992;89:679-87

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- Aerosolized antigen exposure without adjuvant causes increased IgE production and increased airway responsiveness in the mouse (Renz et al). 1992;89:1127-38
- The effect of aerosol distribution on airway responsiveness to inhaled methacholine in patients with asthma (Laube et al). 1992;89:510-8
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- Vascular permeability and airway narrowing during late asthmatic response in dogs treated with Metopirone (Ohrui et al). 1992;89:933-43

Airway responsiveness; *see* **Bronchial provocation tests**; **Respiratory function tests**; **Respiratory hypersensitivity**

Airway smooth muscle; *see* **Muscle, smooth**

Albumin, serum; *see* **Serum albumin**

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- Albumin and immunoglobulin levels in nasal secretions of patients with nasal polyps treated with endoscopic sinus surgery and topical corticosteroids (Biewenga et al). 1995;96:334-40
- IgE cross-reactivities against albumins in patients allergic to animals (Spitzauer et al). 1995;96:951-9
- Molecular characterization of dog albumin as a cross-reactive allergen (Spitzauer et al). 1994;93:614-27
- The pathophysiology of rhinitis. V. Sources of protein in allergen-induced nasal secretions (Raphael et al). 1991;88:33-42

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- Asthma symptoms and airway hyperresponsiveness are lower during treatment with nedocromil sodium than during treatment with regular inhaled albuterol (Wasserman et al). 1995;95:541-7
- Bronchodilator and bronchoprotective effects of salmeterol in young patients with asthma (Simons et al). 1992;90:840-5
- Clinical equivalence of a novel non-chlorofluorocarbon-containing salbutamol sulfate metered-dose inhaler and a conventional chlorofluorocarbon inhaler in patients with asthma (Dockhorn et al). 1995;96:50-6
- Common measures of asthma severity lack association for describing its clinical course (Apter et al). 1994;94:732-7
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- Comparison of the bronchodilatory effects of cetirizine, albuterol, and both together versus placebo in patients with mild-to-moderate asthma (Spector et al). 1995;96:174-81
- The effect of cetirizine on the human isolated bronchus: interaction with salbutamol (Advenier et al). 1991;88:104-13
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- Regular use of inhaled albuterol and the allergen-induced late asthmatic response (Cockcroft et al). 1995;96:44-9
- Salmeterol, a new inhaled beta$_2$-adrenergic agonist, has a longer blocking effect than albuterol on hyperventilation-induced bronchoconstriction (Malo et al). 1992;89:567-74

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- Complementary DNA cloning and expression in *Escherichia coli* of *Aln g* I, the major allergen in pollen of alder *(Alnus glutinosa)* (Breiteneder et al). 1992;90:909-17

Alder pollen; *see* **Pollen**

Aleuroglyphus ovatus; *see also* **Mites**
- Proteinases in extracts of the storage mite, *Aleuroglyphus ovatus* (Edwards et al). 1992;90:129-31 (Brief comm.)

Algae, green
- Allergy to green algae *(Chlorella)* among children (Tiberg et al). 1995;96:257-9 (Brief comm.)

Alkylation
- Fine specificity of B-cell epitopes on *Felis domesticus* allergen I (*Fel d* I): effect of reduction and alkylation or deglycosylation on *Fel d* I structure and antibody binding (Vailes et al). 1994;93:22-33

Allergen bronchial provocation tests; *see* **Bronchial provocation tests**

Allergen challenge, bronchial; *see* **Bronchial provocation tests**

Allergen immunotherapy; *see* **Desensitization, immunologic**

Allergen patch tests; *see* **Patch tests**

Allergen provocation tests; *see* **Bronchial provocation tests**; **Nasal provocation tests**; **Skin tests**

Allergenic extracts; *see* **Desensitization, immunologic**

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Affinity purification of a major and a minor allergen from dog extract: serologic activity of affinity *Can f* I and of *Can f* I-depleted extract (de Groot et al). 1991;87:1056-65

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The allergens of *Epicoccum nigrum* link. I. Identification of the allergens by immunoblotting (Dixit et al). 1992;90:11-20

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Association of class II sequences encoding DR1 and DQ5 specificities with hypersensitivity to chironomid allergen *Chi t* I (Tautz et al). 1994;93:918-25

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Chronologic analysis of in situ cytokine expression in mite allergen–induced dermatitis in atopic subjects (Yamada et al). 1995;96:1069-75 (Symposium)

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Clothing—an important source of mite allergen exposure (Tovey et al). 1995;96:999-1001 (Brief comm.)

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- The use of murine polyclonal anti-idiotypic antibodies as surrogate allergens in the diagnosis of *Parthenium* hypersensitivity (Sriramarao et al). 1993;92:567-80

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- Drug eruptions and isotypic antibody responses to streptokinase after infusions of anisoylated plasminogen-streptokinase complex (APSAC, anistreplase) (Dykewicz et al). 1995;95:1020-8
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- Acarex test correlates with monoclonal antibody test for dust mites (Ransom et al). 1991;87:886-8 (Brief rep.)
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- Affinity purification of latex antigens (Slater and Trybal). 1994;93:644-9
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- Comparison of the ACAREX test with monoclonal antibodies for the quantification of mite allergens (van der Brempt et al). 1991;87:130-2 (Brief rep.)
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- Human FcERI-IgG and humanized anti-IgE monoclonal antibody MaE11 block passive sensitization of human and rhesus monkey lung (Saban et al). 1994;94:836-43
- Human monoclonal or polyclonal antibodies recognize predominantly discontinuous epitopes on bee venom phospholipase A_2 (Schneider et al). 1994;94:61-70
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- Monitoring human basophil activation via CD63 monoclonal antibody 435 (Knol et al). 1991;88:328-38
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- Use of monoclonal antibodies to isolate and characerize *Cyn d* I, the major allergen of Bermuda grass pollen (Han et al). 1993;92:549-58

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- Human monoclonal or polyclonal antibodies recognize predominantly discontinuous epitopes on bee venom phospholipase A_2 (Schneider et al). 1994;94:61-70

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- Antidopaminergic antibodies in a patient with a complex autoimmune disorder and rapidly progressing Parkinson's disease (Kunas et al). 1995;96:688-90 (Brief comm.)
- Clinical correlation of the venom-specific IgG antibody level during maintenance venom immunotherapy (Golden et al). 1992;90:386-93
- Selection of Hymenoptera venoms for immunotherapy on the basis of patient's IgE antibody cross-reactivity (Hamilton et al). 1993;92:651-9

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- Affinity purification of latex antigens (Slater and Trybul). 1994;93:644-9

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- Investigating severe and fatal asthma (Call et al). 1994;94:1065-72

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- Detection of complement in relation to disease (Frank). 1992;89:641-52 (CME article)
- IgE hidden in immune complexes with anti-IgE autoantibodies in children with asthma (Ritter et al). 1991;88:793-801

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  Analysis of disease-associated amino acid epitopes on HLA class II molecules in atopic dermatitis (Saeki et al). 1995;96:1061-8 (Symposium)
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  Fine specificity of B-cell epitopes on *Felis domesticus* allergen I (*Fel d* I): effect of reduction and alkylation or deglycosylation on *Fel d* I structure and antibody binding (Vailes et al). 1994;93:22-33
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  Mapping human T cell epitopes on phospholipase A_2: the major bee-venom allergen (Dhillon et al). 1992;90:42-51
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Antigens, CD-40
  Role of LFA-1/ICAM-1–dependent cell adhesion in CD40-mediated inhibition of anti-IgM antibody-induced B-cell death (Mayumi et al). 1995;96:1136-44 (Symposium)
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  Effect of oxymetazoline on the early response to nasal challenge with antigen (Majchel et al). 1993;92:767-70 (Brief comm.)
  Eosinophil survival activity identified as interleukin-5 is associated with eosinophil recruitment and degranulation and lung injury twenty-four hours after segmental antigen lung challenge (Ohnishi et al). 1993;92:607-15
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  Use of streptokinase as a recall antigen for lymphocyte proliferation testing in vitro (Youkeles et al). 1991;88:166-71
Antigens, immunology
  Aerosolized antigen exposure without adjuvant causes increased IgE production and increased airway responsiveness in the mouse (Renz et al). 1992;89:1127-38
  Allergens in Hymenoptera venom XXV: the amino acid sequences of antigen 5 molecules and the structural basis of antigenic cross-reactivity (Hoffman). 1993;92:707-16
  Antiallergic properties of the second-generation H_1 antihistamines during the early and late reactions to antigen (Townley). 1992;90:720-5 (Symposium)
  Antibody responses to protein, polysaccharide, and ΦX174 antigens in the hyperimmunoglobulinemia E (hyper-IgE) syndrome (Sheerin and Buckley). 1991;87:803-11
  Antigen avoidance in a mountain environment. II. Influence on basophil releasability in children with allergic asthma (Piacentini et al). 1993;92:644-50
  Development of immune response to cow's milk proteins in infants receiving cow's milk or hydrolyzed formula (Vaarala et al). 1995;96:917-23
  The effect of immunotherapy on the cutaneous late phase response to antigen (Nish et al). 1994;93:484-93
  Food antigen-induced lymphocyte proliferation in children with atopic dermatitis and food hypersensitivity (Sampson). 1993;91:549-51 (Editorial)
  Histamine N-methyltransferase inhibitor potentiates histamine- and antigen-induced airway microvascular leakage in guinea pigs (Sekizawa et al). 1995;96:910-6
  Hypersensitivity pneumonitis caused by soybean antigens (Zubeldia et al). 1995;95:622-6
  Immunoglobulin E reactivity to latex antigens in the sera of patients from Finland and the United States (Kurup et al). 1993;91:1128-34
  Immunotherapy decreases antigen-induced eosinophil cell migration into the nasal cavity (Furin et al). 1991;88:27-32
  Inhibition of mediator release during the early reaction to antigen (Naclerio). 1992;90:715-9 (Symposium)
  Interleukin-6 and interleukin-1α production is associated with antigen-induced late nasal response (Gosset et al). 1993;92:878-90
  Intranasal beclomethasone inhibits antigen-induced nasal hyperresponsiveness to histamine (Baroody et al). 1992;90:373-6
  Lack of primary association between transporter associated with antigen processing genes and atopic dermatitis (Kuwata et al). 1995;96:1051-60 (Symposium)
  Latex antigens (Slater and Chhabra). 1992;89:673-8

Leukotriene D_4 receptor blockade inhibits the immediate and late bronchoconstrictor responses to inhaled antigen in patients with asthma (Rasmussen et al). 1992;90:193-201

Predictive values of cord blood IgE and cord blood lymphocyte responses to food antigens in allergic disorders during infancy (Kobayashi et al). 1994;94:907-16

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The relationship between late asthmatic responses and antigen-specific immunoglobulin (Waserman et al). 1992;90:661-9

Specific immunotherapy reduces the antigen-dependent production of eosinophil chemotactic activity from mononuclear cells in patients with atopic asthma (Nagata et al). 1994;94:160-6

Antigens, isolation and purification

Affinity purification of latex antigens (Slater and Trybul). 1994;93:644-9

Antigenic and allergenic analysis of psyllium seed components (Arlian et al). 1992;89:866-76

Aspergillus fumigatus: identification of 16, 18, and 45 kd antigens recognized by human IgG and IgE antibodies and murine monoclonal antibodies (Arruda et al). 1992;89:1166-76

Characterization of latex antigens and allergens in surgical gloves and natural rubber by immunoelectrophoretic methods (Mäkinen-Kiljunen et al). 1992;90:230-5

Immunodetection of latex antigens (Slater and Trybul). 1994;93:825-30

Antigens, therapeutic use

A major antigen of *Alternaria alternata* with potential for safe and effective immunotherapy (Vijay et al). 1993;91:826-8 (Editorial)

Antihistamine; *see* **Histamine antagonists**; **Histamine H1 receptor blockaders**

Anti-idiotypic antibodies; *see* **Antibodies, anti-idiotypic**

Anti-IgE; *see* **Anti-antibodies**

Anti-inflammatory agents

Adenosine-induced bronchoconstriction and its inhibition by nedocromil sodium (Church and Holgate). 1993;92:190-4 (Symposium)

Effect of nedocromil sodium on airway sensory nerves (Barnes). 1993;92:182-6 (Symposium)

Effect of nedocromil sodium on mediator release from mast cells (Pearce). 1993;92:155-8 (Symposium)

Effect of nedocromil sodium on microvascular leakage (Barnes). 1993;92:197-9 (Symposium)

Effect of nedocromil sodium on specific mediator- and antigen-induced airway responses in allergic sheep (Abraham). 1993;92:171-6 (Symposium)

Effects of nedocromil sodium on in vitro induced migration, activation, and mediator release from human granulocytes (Bruijnzeel et al). 1993;92:159-64 (Symposium)

Effects of nedocromil sodium on the bronchomotor response to sulfur dioxide in asthmatic patients (Bigby and Boushey). 1993;92:195-7 (Symposium)

General pharmacology, pharmacokinetics, and toxicology of nedocromil sodium (Clark). 1993;92:200-2 (Symposium)

Guidelines for the diagnosis of asthma. IV. Overview of approaches to asthma therapy. 1991;88:451-9 (Suppl.)

Highlights of the nedocromil sodium clinical study presentations (Schwartz et al). 1993;92:204-9 (Symposium)

Immunopharmacologic update (Sheffer and Fink). 1991;88:303-21 (Asthma '90)

Modulation by nedocromil sodium of immunologic and nonimmunologic activation of monocytes, macrophages, and platelets (Joseph et al). 1993;92:165-70 (Symposium)

Nedocromil sodium: a pyranoquinoline antiinflammatory agent for the treatment of asthma—introduction (Wasserman). 1993;92:143 (Symposium)

Nedocromil sodium blocks the early and late phases of allergen challenge in a guinea pig model of asthma (Church et al). 1993;92:177-82 (Symposium)

An overview of human safety data with neodocromil sodium (Foulds). 1993;92:202-4 (Symposium)

A review of some comparative clinical studies with nedocromil sodium (Wasserman). 1993;92:210-5 (Symposium)

Summary of nedocromil sodium symposium (Wasserman). 1993;92:216 (Symposium)

Whole blood chemiluminescence as a systemic inflammatory parameter in asthma (Nordman and Nyberg). 1994;94:853-60

Anti-inflammatory agents, nonsteroidal

Intolerance to piroxicam in patients with adverse reactions to nonsteroidal antiinflammatory drugs (Carmona et al). 1992;90:873-9

Protective activity of inhaled nonsteroidal antiinflammatory drugs on bronchial responsiveness to ultrasonically nebulized water (Blanco et al). 1992;90:833-9

Antimicrobials; *see* **Antibiotics**

Antimuscarinic agents; *see* **Parasympatholytics**

Antineoplastic agents

The eosinophil-mediated antitumor activity of interleukin-4 (Tepper). 1994;94:1225-31 (Symposium)

Antipsychotic agents; *see* **Tranquilizing agents, major**

Antitoxins

Reflex sympathetic dystrophy: an adverse reaction to immunotherapy (Steinberg et al). 1995;95:775-6 (Brief comm.)

Antrostomy

Endoscopic approach to sinus disease (Lusk). 1992;90:496-505 (Symposium)

Surgical modalities other than ethmoidectomy (Lusk). 1992;90:538-42 (Symposium)

Ants

Allergens in Hymenoptera venom XXIV: the amino acid sequences of imported fire ant venom allergens *Sol i* II, *Sol i* III, and *Sol i* IV (Hoffman). 1993;91:71-8

Laboratory evaluation of a commercial immunoassay for fire ant allergen–specific IgE antibodies (Feger et al). 1995;96:182-7

Medical consequences of multiple fire ant stings occurring indoors (deShazo and Banks). 1994;93:847-50

The natural history of exposure to the imported fire ant (*Solenopsis invicta*) (Tracy et al). 1995;95:824-8

Systemic reactions to the Samsum ant: an IgE-mediated hypersensitivity (Dib et al). 1995;96:465-72

Apis mellifera

Biochemical variability of venoms from individual European and Africanized honeybees *(Apis mellifera)* (Schumacher et al). 1992;90:59-65

Apple; *see* **Fruit**

Apple allergy; *see* **Food hypersensitivity**

Apricot; *see* **Fruit**

***Ara h* II**; *see* **Allergens**

Arachidonic acid

Arachidonic acid metabolism in monocytes of aspirin-sensitive asthmatic patients before and after oral aspirin challenge (Juergens et al). 1992;90:636-45

Asthma relieved by aspirin: clinical studies, platelet function, and arachidonate metabolism (Fernandez-Rivas et al). 1992;89:141-3 (Brief comm.)

Human neutrophil-derived histamine-releasing activity (HRA-N) causes the release of serotonin but not arachidonic acid metabolites from rat basophilic leukemia cells (Igarashi et al). 1992;89:1085-97

Products of arachidonic acid metabolism and the effects of cyclooxygenase inhibition on ongoing cutaneous allergic reactions in human beings (Atkins et al). 1995;95:742-7

Arizona cypress pollen; *see* **Pollen**

Aromatic hydrocarbons; *see* **Hydrocarbons, aromatic**

Arthritis

A case of lymphocytic pneumonitis, myositis, and arthritis associated with exposure to *Aspergillus niger* (Lonneux et al). 1995;95:1047-9 (Brief comm.)

Ascaris

IgE regulation by nematodes: the body fluid of *Ascaris* contains a B-cell mitogen (Lee and Xie). 1995;95:1246-54

Ascites

Hereditary angioedema with recurrent abdominal pain and ascites (Shah et al). 1995;96:259-61 (Brief comm.)

Aspartame

Aspartame is no more likely than placebo to cause urticaria/angioedema: results of a multicenter, randomized, double-blind, placebo-controlled, crossover study (Geha et al). 1993;92:513-20

A combined single-blind, double-blind, placebo-controlled study to determine the reproducibility of hypersensitivity reactions to aspartame (Garriga et al). 1991;87:821-7

Aspergilloma

Concomitant allergic bronchopulmonary aspergillosis and allergic *Aspergillus* sinusitis with an operated aspergilloma (Bhagat et al). 1993;91:1094-6 (Brief comm.)

Aspergillosis, allergic bronchopulmonary

Asp f I CD4+ TH$_2$-like T-cell lines in allergic bronchopulmonary aspergillosis (Knutsen et al). 1994;94:215-21

Childhood allergic bronchopulmonary aspergillosis (Caballero et al). 1995;95:1044-7 (Brief comm.)

Concomitant allergic bronchopulmonary aspergillosis and allergic *Aspergillus* sinusitis with an operated aspergilloma (Bhagat et al). 1993;91:1094-6 (Brief comm.)

Immunologic significance of a collagen-derived culture filtrate containing proteolytic activity in *Aspergillus*-related diseases (Tomee et al). 1994;93:768-78

Isolation and characterization of a major allergenic component (gp55) of *Aspergillus fumigatus* (Teshima et al). 1993;92:698-706

Localization of IgE to lung germinal lymphoid follicles in a patient with allergic bronchopulmonary aspergillosis (Slavin et al). 1992;90:1006-8 (Brief comm.)

Serum anti-*Aspergillus fumigatus* antibodies by immunoblot and ELISA in cystic fibrosis with allergic bronchopulmonary aspergillosis (Knutsen et al). 1994;93:926-31

Specific serum immunopatterns in clinical phases of allergic bronchopulmonary aspergillosis (Leser et al). 1992;90:589-99

Ultrastructural demonstration of specific IgG and IgE antibodies binding to *Aspergillus fumigatus* from patients with aspergillosis (Reijula et al). 1991;87:683-8

Variability in parameters of allergic bronchopulmonary aspergillosis in patients with cystic fibrosis (Hutcheson et al). 1991;88:390-4

Aspergillus

Aspergillus brain abscess complicating allergic *Aspergillus* sinusitis (Tsimikas et al). 1994;94:264-7 (Brief comm.)

Concomitant allergic bronchopulmonary aspergillosis and allergic *Aspergillus* sinusitis with an operated aspergilloma (Bhagat et al). 1993;91:1094-6 (Brief comm.)

Immunologic significance of a collagen-derived culture filtrate containing proteolytic activity in *Aspergillus*-related diseases (Tomee et al). 1994;93:768-78

Respiratory allergy to *Aspergillus*-derived enzymes in bakers' asthma (Quirce et al). 1992;90:970-8

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Isolation and characterization of a recombinant heat shock protein of *Aspergillus fumigatus* (Kumar et al). 1993;91:1024-30

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Aspergillus niger

A case of lymphocytic pneumonitis, myositis, and arthritis associated with exposure to *Aspergillus niger* (Lonneux et al). 1995;95:1047-9 (Brief comm.)

Aspergillus oryzae

Hypersensitivity pneumonitis in a soy sauce brewer caused by *Aspergillus oryzae* (Tsuchiya et al). 1993;91:688-9 (Brief comm.)

Occupational asthma caused by α-amylase inhalation: clinical and immunologic findings and bronchial response patterns (Losada et al). 1992;89:118-25

Aspirin

An analysis with sequence-specific oligonucleotide probes of the association between aspirin-induced asthma and antigens of the HLA system (Lympany et al). 1993;92:114-23

Arachidonic acid metabolism in monocytes of aspirin-sensitive asthmatic patients before and after oral aspirin challenge (Juergens et al). 1992;90:636-45

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Hydrocortisone sodium succinate does not cross-react with aspirin in aspirin-sensitive patients with asthma (Feigenbaum et al). 1995;96:545-8

Inhibition of monocyte leukotriene B$_4$ production after aspirin desensitization (Juergens et al). 1995;96:148-56

Nasal secretions in response to acetylsalicylic acid (Kowalski et al). 1993;91:580-98

Prevalence of cross-sensitivity with acetaminophen in aspirin-sensitive asthmatic subjects (Settipane et al). 1995;96:480-5

Aspirin, adverse effects

Guidelines for the diagnosis of asthma. X. Special considerations. 1991;88:523-34 (Suppl.)

Immunopharmacologic update (Sheffer and Fink). 1991;88:303-21 (Asthma '90)

Tryptase and histamine release during aspirin-induced respiratory reactions (Bosso et al). 1991;88:830-7

Aspirin, therapeutic use

Asthma relieved by aspirin: clinical studies, platelet function, and arachidonate metabolism (Fernandez-Rivas et al). 1992;89:141-3 (Brief comm.)

Medical management of nasal polyps and sinusitis (Slavin). 1991;88:141-6 (Sheldon Memorial Lecture)

Astemizole

Effect of H$_1$-receptor blockade on late cutaneous reactions to antigen: a double-blind, controlled study (Bierman et al). 1991;87:1013-9

Asthma, chemically induced

Mediator release in aspirin-induced reactions (Lee et al). 1991;88:827-9 (Editorial)

Asthma, child

Changes in carbohydrate and lipid metabolism in children with asthma inhaling budesonide (Turpeinen et al). 1991;88:384-9

Cromolyn versus triamcinolone acetonide for youngsters with moderate asthma (Shapiro et al). 1991;88:742-8

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IgE hidden in immune complexes with anti-IgE autoantibodies in children with asthma (Ritter et al). 1991;88:793-801

Asthma, complications

Blood eosinophil number and activity in relation to lung function in patients with asthma and with eosinophilia (Griffin et al). 1991;87:548-57

Cerebral cortical atrophy and central nervous system (CNS) symptoms in a steroid-treated child with asthma (Spiegel et al). 1992;89:918-9 (Brief comm.)
Effect of salbutamol on gastroesophageal reflux in healthy volunteers and patients with asthma (Michoud et al). 1991;87:762-7
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House dust mite sensitization in children and residential characteristics in a temperate region (Wickman et al). 1991;88:89-95
Hypertension during reduction of long-term steroid therapy in young subjects with asthma (Sanders et al). 1992;89:816-21
Nasal secretions in response to acetylsalicylic acid (Kowalski et al). 1993;91:580-98
Practice parameters for the diagnosis and treatment of asthma. VII. Special conditions (Nicklas and Spector). 1995;96:821-70
Prominent neutrophilic inflammation in sputum from subjects with asthma exacerbation (Fahy et al). 1995;95:843-52
Screening for sinus disease in patients with asthma: a computed tomography–controlled comparison of A-mode ultrasonography and standard radiography (Pfister et al). 1994;94:804-9

Asthma, cytology
Analysis of cellular and biochemical constituents of induced sputum after allergen challenge: a method for studying allergic airway inflammation (Fahy et al). 1994;93:1031-9
Relationships among numbers of bronchoalveolar lavage cells expressing messenger ribonucleic acid for cytokines, asthma symptoms, and airway methacholine responsiveness in atopic asthma (Robinson et al). 1993;92:397-403

Asthma, diagnosis
Airway hyperresponsiveness and the clinical diagnosis of asthma: Histamine or history? (Britton). 1992;89:19-22 (Editorial)
Antecedent features of children in whom asthma develops during the second decade of life (Dodge et al). 1993;92:744-9
Diagnosis of soybean-induced asthma (Morell et al). 1995;96:320-4
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Findings before the diagnosis of asthma in young adults (Dodge et al). 1994;94:831-5
Guidelines for the diagnosis of asthma: foreword (Lenfant). 1991;88:425
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Relations of bronchial responsiveness to allergy skin test reactivity, lung function, respiratory symptoms, and diagnoses in thirteen-year-old New Zealand children (Burrows et al). 1995;95:548-56
The role of the peak flow meter in the diagnosis and management of asthma (Cross and Nelson). 1991;87:120-8 (Rostrum)
Sensitivity and specificity of histamine PC_{20} determination in a random selection of young college students (Cockcroft et al). 1992;89:23-30
Workshop summary and guidelines: investigative use of bronchoscopy, lavage, and bronchial biopsies in asthma and other airway diseases. 1991;88:808-14 (Workshop)

Asthma, drug therapy
Abnormal liver-function tests associated with long-term systemic corticosteroid use in subjects with asthma (Wald and Farr). 1991;88:277-8 (Brief comm.)
Adenosine-induced bronchoconstriction and its inhibition by nedocromil sodium (Church and Holgate). 1993;92:190-4 (Symposium)
Ambophyllin, an office-dispensed tablet for asthma, contains triamcinolone (Yocum et al). 1992;90:127-9 (Brief comm.)
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Analysis of induced sputum to examine the effects of prednisone on airway inflammation in asthmatic subjects (Claman et al). 1994;94:861-9
Association of ocular cataracts with inhaled and oral steroid therapy during long-term treatment of asthma (Toogood et al). 1993;91:571-9
Asthma symptoms and airway hyperresponsiveness are lower during treatment with nedocromil sodium than during treatment with regular inhaled albuterol (Wasserman et al). 1995;95:541-7
Beclomethasone given after the early asthmatic response inhibits the late response and the increased methacholine responsiveness and cromolyn does not (Cockcroft et al). 1993;91:1163-8
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Blood eosinophil numbers and activity during 24 hours: effects of treatment with budesonide and bambuterol (Wempe et al). 1992;90:757-64
Bone mineral density and the risk of fracture in patients receiving long-term inhaled steroid therapy for asthma (Toogood et al). 1995;96:157-66
Bronchodilator and bronchoprotective effects of salmeterol in young patients with asthma (Simons et al). 1992;90:840-5
Budesonide treatment of moderate and severe asthma in children: a dose-response study (Pedersen and Hansen). 1995;95:29-33
Cetirizine in patients with seasonal rhinitis and concomitant asthma: prospective, randomized, placebo-controlled trial (Grant et al). 1995;95:923-32
Choosing the metered-dose inhaler spacer or holding chamber that matches the patient's need: evidence that the specific drug being delivered is an important consideration (Ahrens et al). 1995;96:288-94 (Seminar)
Chronotherapy of asthma with inhaled steroids: the effect of dosage timing on drug efficacy (Pincus et al). 1995;95:1172-8
Clinical equivalence of a novel non-chlorofluorocarbon-containing salbutamol sulfate metered-dose inhaler and a conventional chlorofluorocarbon inhaler in patients with asthma (Dockhorn et al). 1995;96:50-6
The comparative actions and adverse effect profile of single doses of H_1-receptor antihistamines in the airways and skin of subjects with asthma (Wood-Baker and Holgate). 1993;91:1005-14
A comparative study in atopic subjects with asthma of the effects of salmeterol and salbutamol on allergen-induced bronchoconstriction, increase in airway reactivity, and increase in urinary leukotriene E_4 excretion (Taylor et al). 1992;89:575-83
A comparative study of the effects of an inhaled corticosteroid, budesonide, and a β_2-agonist, terbutaline, on airway inflammation in newly diagnosed asthma: a randomized, double-blind, parallel-group controlled trial (Laitinen et al). 1992;90:32-42
Comparison of oral pulse methotrexate with placebo in the treatment of severe glucocorticosteroid-dependent asthma (Stewart et al). 1994;94:482-9
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The contribution of neurogenic reflexes to hypertonic saline-induced bronchoconstriction in asthma (Makker and Holgate). 1993;92:82-8
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A device for overcoming discoordination with metered-dose inhalers (Schecker et al). 1993;92:783-9

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Dose-related decrease in bone density among asthmatic patients treated with inhaled corticosteroids (Hanania et al). 1995;96:571-9

Drug delivery characteristics of metered-dose inhalers (Schultz). 1995;96:284-7 (Seminar)

Duration and magnitude of action of 50 and 100 μg of inhaled salmeterol in protecting against bronchoconstriction induced by hyperventilation of dry cold air in subjects with asthma (Cartier et al). 1993;92:488-92 (Brief comm.)

Effect of a single dose of inhaled salmeterol on baseline airway caliber and methacholine-induced airway obstruction in asthmatic children (Verberne et al). 1993;91:127-34

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The effect of an oral leukotriene antagonist, ONO-1078, on allergen-induced immediate bronchoconstriction in asthmatic subjects (Taniguchi et al). 1993;92:507-12

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The effect of dapsone in steroid-dependent asthma (Berlow et al). 1991;87:710-5

The effect of dexamethasone, cyclosporine, and rapamycin on T-lymphocyte proliferation in vitro: comparison of cells from patients with glucocorticoid-sensitive and glucocorticoid-resistant chronic asthma (Haczku et al). 1994;93:510-9

The effect of formoterol on the late asthmatic phenomena in guinea pigs (Sugiyama et al). 1992;89:858-66

The effect of H_1-receptor blockade on the development of early- and late-phase bronchoconstriction and increased bronchial responsiveness in allergen-induced asthma (Twentyman et al). 1993;91:1169-78

The effect of inhalation of the leukotriene receptor antagonist, SK&F 104353, on leukotriene C_4- and leukotriene E_4-induced bronchoconstriction in subjects with asthma (Christie et al). 1991;88:193-8

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The effect of inhaled gallopamil, a potent calcium channel blocker, on the late-phase response in subjects with allergic asthma (Hoppe et al). 1992;89:688-95

The effect of inhaled ipratropium bromide alone and in combination with oral terfenadine on bronchoconstriction provoked by adenosine 5′-monophosphate and histamine in asthma (Polosa et al). 1991;87:939-47

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Effect of low-dose methotrexate on the disposition of glucocorticoids and theophylline (Glynn-Barnhart et al). 1991;88:180-6

The effect of MK-0591, a novel 5-lipoxygenase activating protein inhibitor, on leukotriene biosynthesis and allergen-induced airway responses in asthmatic subjects in vivo (Diamant et al). 1995;95:42-51

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Effect of nedocromil sodium on mediator release from mast cells (Pearce). 1993;92:155-8 (Symposium)

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Effect of prolonged use of inhaled steroids on the cellular immunity of children with asthma (Levy et al). 1995;95:806-12

Effect of solution and suspension type aerosol of formoterol on tremor response and airways in patients with asthma (Bauer et al). 1995;96:495-501

Effect of the oral leukotriene antagonist, ICI 204,219, on antigen-induced bronchoconstriction in subjects with asthma (Findlay et al). 1992;89:1040-5

Effective site of bronchodilation by antiasthma drugs in subjects with asthma (Yanai et al). 1991;87:1080-7

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Effects of dose and dosing schedule of inhaled budesonide on bone turnover (Toogood et al). 1991;88:572-80

The effects of H_2-receptor antagonists on exercise refractoriness in asthma (Manning et al). 1992;90:125-6 (Brief comm.)

Effects of inhaled budesonide on serum markers of bone metabolism in children with asthma (Sorva et al). 1992;90:808-14

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The effects of nebulized recombinant interferon-γ in asthmatic airways (Boguniewicz et al). 1995;95:133-5 (Brief comm.)

Effects of nedocromil sodium on in vitro induced migration, activation, and mediator release from human granulocytes (Bruijnzeel et al). 1993;92:159-64 (Symposium)

Effects of nedocromil sodium on the bronchomotor response to sulfur dioxide in asthmatic patients (Bigby and Boushey). 1993;92:195-7 (Symposium)

Efficacy and safety of low-dose troleandomycin therapy in children with severe, steroid-requiring asthma (Kamada et al). 1993;91:873-82

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Biologic allergens; *see* **Allergens**

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Biological factors

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Biological fluids; *see* **Body fluids**

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Birds

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- **Blood donors**
  - Cytokine production by mite-specific T cells from donors with mild atopic disease (Looney et al). 1994;93:476-83
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  - *Aspergillus* brain abscess complicating allergic *Aspergillus* sinusitis (Tsimikas et al). 1994;94:264-7 (Brief comm.)
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Histamine N-methyltransferase inhibitor potentiates histamine- and antigen-induced airway microvascular leakage in guinea pigs (Sekizawa et al). 1995;96:910-6
Human nasal mucosal carboxypeptidase: activity, location, and release (Ohkubo et al). 1995;96:924-31
Capital financing
The most important issue facing the specialty of allergy and immunology today (Anderson). 1991;88:17-26 (Presidential address)
Capsaicin
The human nasal response to capsaicin (Philip et al). 1994;94:1035-45
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Carbohydrates
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Separation of *Alternaria* into protein and carbohydrate fractions with phenyl Sepharose (Portnoy et al). 1991;87:789-93
Carboplatin
Anaphylaxis to carboplatin—a new platinum chemotherapeutic agent (Windom et al). 1992;90:681-3 (Brief comm.)
Carboxypeptidases
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Career choice
American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: fostering of junior academic allergists/immunologists (Marquardt et al). 1992;90:998-9 (Workshop)
Carmine
Occupational asthma and immunologic responses induced by inhaled carmine among employees at a factory making natural dyes (Quirce et al). 1994;93:44-52
Carob bean
Rhinitis and asthma caused by occupational exposure to carob bean flour (van der Brempt et al). 1992;90:1008-10 (Brief comm.)
Carpeting
Occupational asthma induced by a carpet fungicide—tributyl tin oxide (Shelton et al). 1992;90:274-5 (Brief comm.)
Carpets; *see* **Floors and floorcoverings**
Carrageenan
Anaphylaxis to carrageenan: a pseudo-latex allergy (Tarlo et al). 1995;95:933-6
Casein hydrolysate
Food protein–induced enterocolitis to casein hydrolysate formulas (Kelso and Sampson). 1993;92:909-10 (Brief comm.)
Casein-whey protein hydrolyzed formula; *see* **Food, formulated**
Cashew tree; *see* **Trees**
Cat extract immunotherapy; *see* **Immunotherapy**
Cataract
Association of ocular cataracts with inhaled and oral steroid therapy during long-term treatment of asthma (Toogood et al). 1993;91:571-9
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Catecholamine responses to histamine infusion in man (Schellenberg et al). 1991;87:499-504
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The genetics of atopy (Cookson). 1994;94:643-4 (Symposium)
CD8$^+$ lymphocytes; *see* **Lymphocytes**
CD23
Granulocyte-macrophage colony-stimulating factor stimulates macrophages to respond to IgE via the low affinity IgE receptor (CD23) (Matz et al). 1994;93:650-7
A reduction in allergen-induced FcεR2/CD23 expression on peripheral B cells correlates with successful hyposensitization in grass pollinosis (Jung et al). 1995;95:77-87
CD34
Differential expression of granulocyte-macrophage colony-stimulating factor and IL-3 receptor subunits on human CD34$^+$ cells and leukemic cell lines (Kurata et al). 1995;96:1083-99 (Symposium)
CD-40; *see* **Antigens, CD-40**
CD54; *see* **Cell adhesion molecules**
CD69
In vivo expression of CD69 on lung eosinophils in eosinophilic pneumonia: CD69 as a possible activation marker for eosinophils (Nishikawa et al). 1992;90:169-74

CD4 antigens; *see* **Antigens**

CD40 ligands; *see* **Ligands**

CD4+ T-lymphocytes; *see* **T-lymphocytes**

CD8+ T-lymphocytes; *see* **T-lymphocytes**

CD40/interlukin-4; *see* **Interleukin-4**

cDNA; *see* **DNA**

CD45R antigens; *see* **Antigens**

Cedar; *see* **Trees**; **Wood**

Cell adhesion

The effects of cetirizine on the adhesion of human eosinophils and neutrophils to cultured human umbilical vein endothelial cells (Kyan-Aung et al). 1992;90:270-2 (Brief comm.)

Eosinophil adhesion in allergic inflammation (Wardlaw et al). 1994;94:1163-71 (Symposium)

Role of LFA-1/ICAM-1–dependent cell adhesion in CD40-mediated inhibition of anti-IgM antibody-induced B-cell death (Mayumi et al). 1995;96:1136-44 (Symposium)

Cell adhesion molecules

Allergic subjects express intercellular adhesion molecule—1 (ICAM-1 or CD54) on epithelial cells on conjunctiva after allergen challenge (Ciprandi et al). 1993;91:783-92

Cetirizine reduces inflammatory cell recruitment and ICAM-1 (or CD54) expression on conjunctival epithelium in both early- and late-phase reactions after allergen-specific challenge (Ciprandi et al). 1995;95:612-21

Cytokines and eosinophil-derived cationic proteins upregulate intercellular adhesion molecule-1 on human nasal epithelial cells (Altman et al). 1993;92:527-36

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Function and expression of adhesion molecules on human basophils (Bochner et al). 1994;94:1157-62 (Symposium)

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Comparison of rhinomanometry, symptom score, and inflammatory cell counts in assessing the nasal late-phase reaction to allergen challenge (Pastorello et al). 1994;93:85-92

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Degranulation of eosinophils from pollen-atopic patients with asthma is increased during pollen season (Carlson et al). 1992;89:131-9

Effect of steroids on immunoglobulin-induced eosinophil degranulation (Kita et al). 1991;87:70-7

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Neuropeptide Y, a putative cotransmitter in noradrenergic neurons, induces mast cell degranulation but not prostaglandin D_2 release (Arzubiaga et al). 1991;87:88-93

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No relationship between skin-infiltrating T_{H2}-like cells and allergen-specific IgE response in atopic dermatitis (Virtanen et al). 1995;96:411-20

Quantification of resident inflammatory cells in the human nasal mucosa (Igarashi et al). 1993;91:1082-93

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Effects of platelet-activating factor on bioelectric properties of cultured tracheal and bronchial epithelia (Tamaoki et al). 1991;87:1042-9

Eosinophil-active cytokine from mononuclear cells cultured with L-tryptophan products: an unexpected consequence of endotoxin contamination (Kita et al). 1995;95:1261-7

Cellular immunity; *see* **Immunity, cellular**

Cement

Allergic contact reactions in health personnel (Fisher). 1992;90:729-38 (Postgrad. course)

Central nervous system

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Central nervous system symptoms; *see* **Neurological manifestations**

Centruroides vittatus; *see* **Scorpions**

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Anaphylactic reactions to a psyllium-containing cereal (James et al). 1991;88:402-8

Immunologic cross-reactivity among cereal grains and grasses in children with food hypersensitivity (Jones et al). 1995;96:341-51

Occupational asthma caused by vetch (*Vicia sativa*) (Picón et al). 1991;88:135-6 (Brief comm.)

Cerebral cortex

Cerebral cortical atrophy and central nervous system (CNS) symptoms in a steroid-treated child with asthma (Spiegel et al). 1992;89:918-9 (Brief comm.)

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Cetirizine inhibits the in vitro and ex vivo chemotactic response of T lymphocytes and monocytes (Jinquan et al). 1995;95:979-86

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phase reactions after allergen-specific challenge (Ciprandi et al). 1995;95:612-21
Comparison of the bronchodilatory effects of cetirizine, albuterol, and both together versus placebo in patients with mild-to-moderate asthma (Spector et al). 1995;96:174-81
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The effect of cetirizine on the human isolated bronchus: interaction with salbutamol (Advenier et al). 1991;88:104-13
Effect of the H_2-antagonist cimetidine on the pharmacokinetics and pharmacodynamics of the H_1-antagonists hydroxyzine and cetirizine in patients with chronic urticaria (Simons et al). 1995;95:685-93
The effects of cetirizine on the adhesion of human eosinophils and neutrophils to cultured human umbilical vein endothelial cells (Kyan-Aung et al). 1992;90:270-2 (Brief comm.)
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Lack of effect of cetirizine on early and late asthmatic response after allergen challenge (de Bruin-Weller et al). 1994;94:231-9
Quantitation of H_1-receptor antagonists in skin and serum (Simons et al). 1995;95:759-64
Sleepiness and performance during three-day administraiton of cetirizine or diphenhydramine (Schweitzer et al). 1994;94:716-24

Chamber fluids
Effects of skin-chamber fluids from human allergic reactions on neutrophil activation (Sato et al). 1992;90:21-31

Cheese
Allergy to cheese produced from sheep's and goat's milk but not to cheese produced from cow's milk (Wüthrich and Johansson). 1995;96:270-3 (Brief comm.)

Chemical sensitivity; *see* **Hypersensitivity**

Chemical workers; *see* **Occupational exposure**

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Whole blood chemiluminescence as a systemic inflammatory parameter in asthma (Nordman and Nyberg). 1994;94:853-60

Chemokines
Chemokines of the α,β-subclass inhibit human basophils' responsiveness to monocyte chemotactic and activating factor/monocyte chemoattractant protein-1 (Kuna et al). 1995;95:574-86

Chemotactic factors
Bronchial epithelial cells of patients with asthma release chemoattractant factors for T-lymphocytes (Bellini et al). 1993;92:412-24
Cetirizine inhibits the in vitro and ex vivo chemotactic response of T lymphocytes and monocytes (Jinquan et al). 1995;95:979-86
Chemokines of the α,β-subclass inhibit human basophils' responsiveness to monocyte chemotactic and activating factor/monocyte chemoattractant protein-1 (Kuna et al). 1995;95:574-86

Chemotactic factors, eosinophil
Inhibition of cytokine-primed eosinophil chemotaxis by nedocromil sodium (Warringa et al). 1993;91:802-9
Skin eosinophilia in patients with allergic asthma, patients with nonallergic asthma, and healthy controls (Bruijnzeel et al). 1993;91:634-42
Specific immunotherapy reduces the antigen-dependent production of eosinophil chemotactic activity from mononuclear cells in patients with atopic asthma (Nagata et al). 1994;94:160-6
Upregulation of formyl-peptide– and interleukin-8–induced eosinophil chemotaxis in patients with allergic asthma (Warringa et al). 1993;91:1198-205

Chemotaxis, leukocyte
Comparison of platelet-activating factor–induced chemotaxis of normodense and hypodense eosinophils (Little and Casale). 1991;88:187-92
The effect of immunotherapy on eosinophil accumulation and production of eosinophil chemotactic activity in the lung of subjects with asthma during natural pollen exposure (Rak et al). 1991;88:878-88
Effects of various barriers on platelet-activating factor–induced neutrophil chemotaxis (Casale and Abbas). 1991;87:565-74

Chemotherapy; *see* **Drug therapy**

Cherries; *see* **Fruit**

***Chi t* I**; *see* **Allergens**

Chicken
Anaphylaxis to chicken soup: a case report and a brief history of the chicken in medicine (Saff and Fink). 1992;89:1061-2 (Brief comm.)

Chicken serum albumin; *see* **Serum albumin**

Childbirth
Latex hypersensitivity after natural delivery (Laurent et al). 1992;89:779-80 (Brief comm.)

Chironomid allergen *Chi t* I; *see* **Allergens**

Chlorella; *see* **Algae, green**

Chlorofluorocarbon
Clinical equivalence of a novel non-chlorofluorocarbon-containing salbutamol sulfate metered-dose inhaler and a conventional chlorofluorocarbon inhaler in patients with asthma (Dockhorn et al). 1995;96:50-6

Chlorpheniramine
Comparison of azelastine and chlorpheniramine in the treatment of mastocytosis (Friedman et al). 1993;92:520-6

Cholinergic agents; *see* **Parasympathomimetics**

Cholinergic antagonists; *see* **Parasympatholytics**

Cholinergic urticaria; *see* **Urticaria**

Chromatography
Separation of *Alternaria* into protein and carbohydrate fractions with phenyl Sepharose (Portnoy et al). 1991;87:789-93

Chromosomes
Genetic analysis using DNA polymorphism of the linkage between chromosome 11q13 and atopy and bronchial hyperresponsiveness to methacholine (Lympany et al). 1992;89:619-28

Chronic active hepatitis; *see* **Hepatitis, chronic active**

Chronic allergic diseases; *see* **Hypersensitivity**

Chronic obstructive pulmonary disease; *see* **Lung diseases**

Chronic sinusitis; *see* **Sinusitis**

Chronotherapy
Chronotherapy of asthma with inhaled steroids: the effect of dosage timing on drug efficacy (Pincus et al). 1995;95:1172-8

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Treatment of Churg-Strauss syndrome with high-dose intravenous immunoglobulin (Hamilos and Christensen). 1991;88:823-4 (Brief comm.)
Urinary eosinophil-derived neurotoxin in Churg-Strauss syndrome (Cottin et al). 1995;96:261-4 (Brief comm.)

Cigarette smoke; *see* **Tobacco smoke pollution**

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Effect of the H_2-antagonist cimetidine on the pharmacokinetics and pharmacodynamics of the H_1-antagonists hydroxyzine and cetirizine in patients with chronic urticaria (Simons et al). 1995;95:685-93
Histamine-induced venodilation in human beings involves both H_1 and H_2 receptor subtypes (Dachman et al). 1994;93:606-14

C1-inhibitor
Acquired deficiency in C1-inhibitor associated with signet ring cell gastric adenocarcinoma: a probable connection of antitumor-associated antibodies, hemolytic anemia, and complement turnover (Wasserfallen et al). 1995;95:124-31

Ciprofloxacin
Ciprofloxacin desensitization in a patient with cystic fibrosis (Lantner). 1995;96:1001-2 (Brief comm.)

Circadian rhythm
  Circadian characteristics of circulating interleukin-6 in men (Sothern et al). 1995;95:1029-35
  Effects of budesonide and bambuterol on circadian variation of airway responsiveness and nocturnal symptoms of asthma (Wempe et al). 1992;90:349-57
  Normal diurnal variation in serum cortisol concentration in asthmatic children treated with inhaled budesonide (Volovitz et al). 1995;96:874-8
  Stability of the circadian alteration in lung function in asthma (Martin et al). 1992;89:703-8
  Twenty-four hour pattern in symptom intensity of viral and allergic rhinitis: treatment implications (Smolensky et al). 1995;95:1084-96
Circulating basophils; *see* **Basophils**
Circulation; *see* **Blood circulation**
Clams
  Occupational IgE-mediated sensitization and asthma caused by clam and shrimp (Desjardins et al). 1995;96:608-17
Classical pathway complement; *see* **Complement pathway, classical**
Clavulanic acids
  Selective allergic reactions to clavulanic acid (Fernandez-Rivas et al). 1995;95:748-50
Clean room therapy
  Effectiveness of house dust-mite allergen avoidance through clean room therapy in patients with atopic dermatitis (Sanda et al). 1992;89:653-7
Clenbuterol
  Autoantibodies to β_2-adrenergic receptors with antiadrenergic activity from patients with allergic asthma (Wallukat and Wollenberger). 1991;88:581-7
Climate
  Allergenic pollen and pollinosis in Madrid (Subiza et al). 1995;96:15-23
  The effects of season, climate, and air-conditioning on the prevalence of *Dermatophagoides* mite allergens in household dust (Lintner and Brame). 1993;91:862-7
Clinical history; *see* **Medical history taking**
Clinical immunology
  American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: the growing importance of clinical immunology—impact on the allergy training program and the practice of allergy (Eggleston et al). 1992;90:999-1001 (Workshop)
  Core content outline for clinical and laboratory immunology (AAAI Training Program Directors Committee). 1994;94:933-41
Clinical protocols
  Suggested approaches for research protocols involving the potential for life-threatening reactions (Hamilos et al). 1993;91:1101-20 (Rostrum)
Clone cells
  Skin-derived aeroallergen-specific T-cell clones of Th2 phenotype in patients with atopic dermatitis (van Reijsen et al). 1992;90:184-93
Clothing
  Clothing—an important source of mite allergen exposure (Tovey et al). 1995;96:999-1001 (Brief comm.)
Cocklebur; *see* **Pollen**
Cockroaches
  Allergenic structures in cockroach hypersensitivity (Zwick et al). 1991;87:626-30
  Cockroach allergenic activity: analysis of commercial cockroach and dust extracts (Lehrer et al). 1991;88:895-901
  Cockroach-allergen study: allergen patterns of three common cockroach species probed by allergic sera collected in two cities (Kang et al). 1991;87:1073-80
  Cockroaches and mites share the same beds (Birnbaum et al). 1995;96:561-2 (Brief comm.)
  Comparison of cockroach allergenic activity in whole body and fecal extracts (Lehrer et al). 1991;87:574-80
  Environmental assay for cockroach allergens (Schou et al). 1991;87:828-34
  Environmental exposure to cockroach allergens: analysis with monoclonal antibody–based enzyme immunoassays (Pollart et al). 1991;87:505-10
  Identification of important allergens in German cockroach extracts by sodium dodecylsulfate–polyacrylamide gel electrophoresis and Western blot analysis (Musmand et al). 1995;95:877-85
  Identification, quantitation, and purification of cockroach allergens using monoclonal antibodies (Pollart et al). 1991;87:511-21
  Isolation and preliminary characterization of cDNA encoding American cockroach allergens (Wu et al). 1995;96:352-9
Codeine
  Comparisons of inflammatory responses in IgE-mediated and codeine-induced skin reactions (Zweiman et al). 1993;91:963-5 (Brief comm.)
  Fibrin formation during ongoing cutaneous allergic reactions: comparison of responses to antigen and codeine (Atkins et al). 1993;91:956-60
Coenzyme A
  Adverse effects of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors associated with elevated serum IgE and eosinophils (Fosso et al). 1995;95:1053-5 (Brief comm.)
Coitus
  Local intravaginal desensitization to seminal fluid (Matloff). 1993;91:1230-1 (Brief comm.)
Cold
  Duration and magnitude of action of 50 and 100 μg of inhaled salmeterol in protecting against bronchoconstriction induced by hyperventilation of dry cold air in subjects with asthma (Cartier et al). 1993;92:488-92 (Brief comm.)
  Effect of experimental rhinovirus 39 infection on the nasal response to histamine and cold air challenges in allergic and nonallergic subjects (Doyle et al). 1994;93:534-42
  Tumor necrosis factor-α release during systemic reaction in cold urticaria (Tillie-Leblond et al). 1994;93:501-9
Cold urticaria; *see* **Urticaria**
Colic
  A low allergen diet is a significant intervention in infantile colic: results of a community-based study (Hill et al). 1995;96:886-92
Collagen
  Immunologic significance of a collagen-derived culture filtrate containing proteolytic activity in *Aspergillus*-related diseases (Tomee et al). 1994;93:768-78
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  Episodic eosinophilia-myalgia–like syndrome in a patient without L-tryptophan use: association with eosinophil activation and increased serum levels of granulocyte-macrophage colony–stimulating factor (Bochner et al). 1991;88:629-36
  Expression of the potent inflammatory cytokines, granulocyte-macrophage–colony-stimulating factor and interleukin-6 and interleukin-8, in bronchial epithelial cells of patients with asthma (Marini et al). 1992;89:1001-9
  Identification of the major activity derived from cultured human peripheral blood mononuclear cells, which enhances eosinophil viability, as granulocyte macrophage colony-stimulating factor (GM-CSF) (Burke et al). 1991;88:226-35
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  Inhaled β_2-adrenergic agonists in asthma (Executive Committee of the American Academy of Allergy and Immunology). 1993;91:1234-7 (Position statement)
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  Core content outline for clinical and laboratory immunology. 1994;94:933-41
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- A dose-response study of the efficacy and safety of ipratropium bromide nasal spray in the treatment of the common cold (Diamond et al). 1995;95:1139-46
- A double-blind, placebo-controlled study of the safety and efficacy of ipratropium bromide nasal spray versus placebo in patients with the common cold (Dockhorn et al). 1992;90:1076-82 (Symposium)
- Effect of rhinovirus 39 infection on cellular immune parameters in allergic and nonallergic subjects (Skoner et al). 1993;92:732-43
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- Product characteristics and pharmacokinetics of intranasal ipratropium bromide (Wood et al). 1995;95:1111-6

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- Abnormal response to a human B cell growth factor in patients with common variable immunodeficiency (CVI) (Ambrus et al). 1991;87:1138-49
- 13-Cis retinoic acid enhances in vivo B-lymphocyte differentiation in patients with common variable immunodeficiency (Adelman et al). 1991;88:705-12
- Defective interleukin-2 and interferon-γ gene expression in response to antigen in a subgroup of patients with common variable immunodeficiency (Fischer et al). 1993;92:340-52
- Improved in vitro antigen-specific antibody synthesis in two patients with common variable immunodeficiency taking an oral cyclooxygenase and lipoxygenase inhibitor (ketoprofen) (Ambrus et al). 1991;88:775-83
- Spontaneous remission of common variable immunodeficiency of 20 years duration (Seggev). 1991;88:418-20 (Brief comm.)

Complement
- Acquired deficiency in C1-inhibitor associated with signet ring cell gastric adenocarcinoma: a probable connection of antitumor-associated antibodies, hemolytic anemia, and complement turnover (Wasserfallen et al). 1995;95:124-31
- Detection of complement in relation to disease (Frank). 1992;89:641-52 (CME article)

Complement 1 inactivators
- Acute consumption of C1 inhibitor in a patient with acquired C1-inhibitor deficiency syndrome (Zuraw and Altman). 1991;88:908-18

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- Monoclonal anti-T cell (T12) antibody treatment of graft-versus-host disease in severe combined immunodeficiency: targeting of antibody and activation of complement on CD8$^+$ cytotoxic T cell surfaces (Blomquist et al). 1991;87:1029-33

Complement pathway, classical
- Classical pathway complement activation in Kawasaki syndrome (Kohsaka et al). 1994;93:520-5

Complement 1s
- C1 esterase inhibitor in pregnancy (Cohen et al). 1992;90:412-3 (Brief comm.)

Complementary DNA; *see* **DNA**

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- Effects of skin-chamber fluids from human allergic reactions on neutrophil activation (Sato et al). 1992;90:21-31

Compositae pollen; *see* **Pollen**

Compound 48-80
- Studies of desensitization and cross-desensitization to immunologic and nonimmunologic stimuli that evoke contraction and histamine release in superfused guinea pig trachea (Buckner et al). 1991;87:655-61

Computed tomography; *see* **Tomography, x-ray computed**

Condoms
- Allergic contact reactions in health personnel (Fisher). 1992;90:729-38 (Postgrad. course)

Conjunctiva
- Allergic subjects express intercellular adhesion molecule—1 (ICAM-1 or CD54) on epithelial cells on conjunctiva after allergen challenge (Ciprandi et al). 1993;91:783-92
- Conjunctival hyperresponsiveness to ocular histamine challenge in patients with vernal conjunctivitis (Bonini et al). 1992;89:103-7

Conjunctival provocation tests
- Precision of conjunctival provocation tests in right and left eyes (Aichane et al). 1993;92:49-55

Conjunctivitis, allergic
- Bronchial asthma, rhinoconjunctivitis, and contact dermatitis caused by onion (Valdivieso et al). 1994;94:928-30 (Brief comm.)
- Cetirizine reduces inflammatory cell recruitment and ICAM-1 (or CD54) expression on conjunctival epithelium in both early- and late-phase reactions after allergen-specific challenge (Ciprandi et al). 1995;95:612-21
- Conjunctival hyperresponsiveness to ocular histamine challenge in patients with vernal conjunctivitis (Bonini et al). 1992;89:103-7
- Conjunctivitis medicamentosa (Spector and Raizman). 1994;94:134-6 (Brief comm.)
- Evaluation of the new ophthalmic antihistamine, 0.05% levocabastine, in the clinical allergen challenge model of allergic conjunctivitis (Abelson et al). 1994;94:458-64
- Evidence of intercellular adhesion molecule-1 expression on nasal epithelial cells in acute rhinoconjunctivitis caused by pollen exposure (Ciprandi et al). 1994;94:738-46
- Mast cell numbers and staining characteristics in the normal and allergic human conjunctiva (Morgan et al). 1991;87:111-6
- Ocular challenge and hyperresponsiveness to histamine in patients with allergic conjunctivitis (Ciprandi et al). 1993;91:1227-30 (Brief comm.)
- Papain-induced allergic rhinoconjunctivitis in a cosmetologist (Niinimäki et al). 1993;92:492-3 (Brief comm.)
- Respiratory syncytial virus and allergic conjunctivitis (Fujishima et al). 1995;95:663-7
- Sodium cromoglycate eye drops: regular versus "as needed" use in the treatment of seasonal allergic conjunctivitis (Juniper et al). 1994;94:36-43
- Topical levocabastine compared with orally administered terfenadine for the prophylaxis and treatment of seasonal rhinoconjunctivitis (Søhoel et al). 1993;92:73-81

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- Connective tissue–activating peptide-III and its derivative, neutrophil-activating peptide-2, release histamine from human basophils (Reddigari et al). 1992;89:666-72

Constriction; *see* **Bronchoconstriction**

Consultants
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Contact allergy, drug; *see* **Dermatitis medicamentosa**

Contact dermatitis; *see* **Dermatitis, contact**

Contact hypersensitivity; *see* **Dermatitis, contact**

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- Allergic and immunologic disorders of the eye (Bielory and Frohman). 1992;89:1-18
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- Atopic dermatitis: the skin as a window into the pathogenesis of chronic allergic diseases (Leung). 1995;96:302-19
- Detection of complement in relation to disease (Frank). 1992;89:641-52
- Histamine-releasing factors and inhibitors: historical perspectives and possible implications in human illness (Grant et al). 1991;88:683-93
- Immunoglobulin deficiency syndromes and therapy (Huston et al). 1991;87:1-17
- Latex allergy (Slater). 1994;94:139-50
- Neuropeptides and the lung (Casale). 1991;88:1-14
- Regulation of IgE synthesis in humans: a tale of two signals (Vercelli and Geha). 1991;88:285-95

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- Rehabilitation of a patient with asthma in the outpatient setting (Strunk et al). 1991;87:601-11
- The role of adhesion molecules in human eosinophil and basophil recruitment (Bochner and Schleimer). 1994;94:427-39
- Venom hypersensitivity (Reisman). 1994;94:651-60

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- Gender risk for anaphylactoid reaction to radiographic contrast media (Lang et al). 1995;95:813-7
- Noncardiogenic pulmonary edema induced by nonionic low-osmolality radiographic contrast media (Goldsmith and Steinberg). 1995;96:698-9 (Brief comm.)
- The prevention of immediate generalized reactions to radiocontrast media in high-risk patients (Greenberger and Patterson). 1991;87:867-72

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Coriander; *see* **Spices**

Cornstarch powder; *see* **Powders**

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- Bronchoprovocation committee report (Shapiro and Simon) (1992;89:775-8). 1992;89:1202
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- Effect of salbutamol on gastroesophageal reflux in healthy volunteers and patients with asthma (Michoud et al) (1991;87:762-7). 1992;89:778
- Facilitated referral to asthma specialist reduced relapses in asthma emergency room visits (Zeiger et al) (1991;87:1160-8). 1992;90:278
- Immunologic analysis of anaphylaxis to protamine component in neutral protamine Hagedorn human insulin (Dykewicz et al) (1994;93:117-25). 1994;93:810
- Medical management of nasal polyps and sinusitis (Slavin) (1991;88:141-6). 1992;89:640
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- Reduction of side effects of specific immunotherapy (Stewart and Lockey). 1993;92:498 (Letter reply)
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- Allergists and immunologists professional liability insurance (Buckley) (Letter); (Bartee) (Reply). 1991;87:135-6
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- Prevalence of cross-sensitivity with acetaminophen in aspirin-sensitive asthmatic subjects (Settipane et al). 1995;96:480-5
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Cultured cells; *see* **Cells, cultured**

Cupressus arizonica; *see* **Pollen**

Cutaneous allergic reactions; *see* **Dermatitis**; **Skin manifestations**; **Skin tests**

Cutaneous microdialysis; *see* **Intradermal tests**

Cutaneous responses; *see* **Skin manifestations**

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- Reassessment of the temporal patterns of bronchial obstruction after exposure to occupational sensitizing agents (Perrin et al). 1991;87:630-9

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Cyanopindolol

- Alterations of adrenoceptors in the nasal mucosa of allergic patients in comparison with nonallergic individuals (van Megen et al). 1991;87:530-40

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3′,5′-Cyclic AMP phosphodiesterase

- Immunochemical characterization of the distinct monocyte cyclic AMP-phosphodiesterase from patients with atopic dermatitis (Chan et al). 1993;91:1179-88

Cyclooxygenase; *see* **Prostaglandin synthase**

Cyclooxygenase inhibitors

- Products of arachidonic acid metabolism and the effects of cyclooxygenase inhibition on ongoing cutaneous allergic reactions in human beings (Atkins et al). 1995;95:742-7

Cyclophosphamide

- Validity of skin tests to cyclophosphamide and metabolites (Cromar et al). 1991;88:965-7 (Brief comm.)

Cyclosporine

- The effect of dexamethasone, cyclosporine, and rapamycin on T-lymphocyte proliferation in vitro: comparison of cells from patients with glucocorticoid-sensitive and glucocorticoid-resistant chronic asthma (Haczku et al). 1994;93:510-9
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***Cyn d* I**; *see* **Pollen**

Cynodon dactylon; *see* **Grasses**

Cypress pollen; *see* **Pollen**

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- Influence of indomethacin and L-cysteine on histamine and peptidoleukotriene release from superfused tracheas taken from guinea pigs passively sensitized with IgG1 and IgE antibodies (Ro et al). 1991;87:1150-60

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- Atopic children with cystic fibrosis have increased urinary leukotriene E_4 concentrations and more severe pulmonary disease (Greally et al). 1994;93:100-7
- Ciprofloxacin desensitization in a patient with cystic fibrosis (Lantner). 1995;96:1001-2 (Brief comm.)
- Impact of sinusitis in cystic fibrosis (Ramsey and Richardson). 1992;90:547-52 (Symposium)
- Sensitization to aztreonam and cross-reactivity with other beta-lactam antibiotics in high-risk patients with cystic fibrosis (Moss). 1991;87:78-88
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- Chronologic analysis of in situ cytokine expression in mite allergen–induced dermatitis in atopic subjects (Yamada et al). 1995;96:1069-75 (Symposium)
- Cytokine profile of viral and autoimmune chronic active hepatitis (Al-Wabel et al). 1993;92:902-8
- Particulate *Aspergillus fumigatus* antigens elicit a TH_2 response in BALB/c mice (Kurup et al). 1994;93:1013-20
- Relationships among numbers of bronchoalveolar lavage cells expressing messenger ribonucleic acid for cytokines, asthma symptoms, and airway methacholine responsiveness in atopic asthma (Robinson et al). 1993;92:397-403

Cytokines, immunology

- Antigen presenting cell-independent cytokine and spontaneous in vitro IgE production in patients with atopic dermatitis: increased interferon-γ production and lack of effects of in vivo low-dose interferon-γ treatment (Simon et al). 1995;96:84-91
- Basophil and eosinophil differentiation in allergic reactions (Denburg et al). 1994;94:1135-41 (Symposium)
- Classical pathway complement activation in Kawasaki syndrome (Kohsaka et al). 1994;93:520-5
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- Cytokines in symptomatic asthma airways (Broide et al). 1992;89:958-67
- Effect of inhaled beclomethasone dipropionate on expression of proinflammatory cytokines and activated eosinophils in the bronchial epithelium of patients with mild asthma (Wang et al). 1994;94:1025-34
- Evidence for distinct cytokine expression in allergic versus nonallergic chronic sinusitis (Hamilos et al). 1995;96:537-44

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Cytokines and eosinophil-derived cationic proteins upregulate intercellular adhesion molecule-1 on human nasal epithelial cells (Altman et al). 1993;92:527-36
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Cytokines, therapeutic use
Cytokine control of eosinophils in pulmonary diseases (Walker et al). 1994;94:1262-71 (Symposium)

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Roles of the cytoplasmic domains of the α and β subunits of human granulocyte-macrophage colony-stimulating factor receptor (Muto et al). 1995;96:1100-14 (Symposium)

Cytoplasmic granules
Ultrastructural immunogold localization of tumor necrosis factor-α to the cytoplasmic granules of rat peritoneal mast cells with rapid microwave fixation (Beil et al). 1994;94:531-6

Cytotoxicity, immunologic
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DAB$_{389}$IL-4; *see* **Toxins**

Danazol
Long-term treatment of hereditary angioedema with attenuated androgens: a survey of a 13-year experience (Cicardi et al). 1991;87:768-73

Dapsone
The effect of dapsone in steroid-dependent asthma (Berlow et al). 1991;87:710-5

Day nurseries; *see* **Schools, nursery**

Death
Pathology of asthma and its clinical implications (Beasley et al). 1993;92:148-54 (Symposium)
Survey of fatalities from skin testing and immunotherapy (Reid et al). 1993;92:6-15 (Rostrum)

Decompression sickness
Discussion of risk of scuba diving in individuals with allergic and respiratory diseases (SCUBA Subcommittee). 1995;96:871-3 (Editorial)

Decongestants; *see* **Vasoconstrictor agents, nasal**

Defense mechanisms
Detection of complement in relation to disease (Frank). 1992;89:641-52 (CME article)

Deferoxamine
Desferal (desferrioxamine)—a novel activator of connective tissue–type mast cells (Shalit et al). 1991;88:854-60

Deglycosylation; *see* **Glycosylation**

Degranulation; *see* **Cell degranulation**

Dehumidifiers; *see* **Humidity**

Delivery
Latex hypersensitivity after natural delivery (Laurent et al). 1992;89:779-80 (Brief comm.)

***Der f* I**; *see* **Allergens; Mites**

***Der p* I**; *see* **Allergens**; **Mites**

***Der p* V allergen**; *see* **Allergens; Mites**

Dermal hypersensitivity; *see* **Dermatitis, contact**

Dermatitis
Expression of interleukin-4 and interleukin-5 mRNA in developing cutaneous late-phase reactions (Vowels et al). 1995;96:92-6
Hemodialysis-induced rash: a unique case of cholinergic urticaria (Confino-Cohen et al). 1995;96:1002-4 (Brief comm.)
Preferential recruitment of activated, memory T lymphocytes into skin chamber fluids during human cutaneous late-phase allergic reactions (Werfel et al). 1995;96:57-65

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Airway responsiveness in atopic dermatitis (Barker et al). 1991;87:780-3
Atopic dermatitis of the face, scalp, and neck: Type I reaction to the yeast *Pityrosporum ovale*? (Jensen-Jarolim et al). 1992;89:44-51
Enhancement of IgE production by anti-CD40 antibody in atopic dermatitis (Renz et al). 1994;93:658-68
Identification and characterization of a second major peanut allergen, *Ara h* II, with use of the sera of patients with atopic dermatitis and positive peanut challenge (Burks et al). 1992;90:962-9
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Lack of primary association between transporter associated with antigen processing genes and atopic dermatitis (Kuwata et al). 1995;96:1051-60 (Symposium)
Monocytes from patients with atopic dermatitis are primed for superoxide production (Polla et al). 1992;89:545-51
Patients with severe atopic dermatitis have activated circulating basophils (James et al). 1993;91:1155-62
Polymorphisms of transporter associated with antigen processing genes in atopic dermatitis (Kuwata et al). 1994;94:565-74 (Symposium)
Reduced secretion of IgA to skin surface of patients with atopic dermatitis (Imayama et al). 1994;94:195-200

Dermatitis, atopic, complications
Allergenicity of peanut and soybean extracts altered by chemical or thermal denaturation in patients with atopic dermatitis and positive food challenges (Burks et al). 1992;90:889-97
Altered glucocorticoid receptor binding in atopic dermatitis (Clayton et al). 1995;96:421-3 (Brief comm.)
Food antigen-induced lymphocyte proliferation in children with atopic dermatitis and food hypersensitivity (Sampson). 1993;91:549-51 (Editorial)

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- Skin eosinophilia in patients with allergic and nonallergic asthma and atopic dermatitis (Bruijnzeel-Koomen et al). 1992;89:52-9

Dermatitis, atopic, diagnosis
- Atopy patch test with different vehicles and allergen concentrations: an approach to standardization (Darsow et al). 1995;95:677-84
- Detection of decreased cytotoxic effector CD8+ T lymphocytes in atopic dermatitis by flow cytometry (McCoy et al). 1992;90:688-90 (Brief comm.)
- The detection of IgE-secreting cells in the peripheral blood of patients with atopic dermatitis (Dhanjal et al). 1992;89:895-904
- Evaluation of variables influencing the outcome of the atopy patch test (Langeveld-Wildschut et al). 1995;96:66-73
- House dust mite–specific T cells in the skin of subjects with atopic dermatitis: frequency and lymphokine profile in the allergen patch test (Sager et al). 1992;89:801-10
- Reproducibility of skin prick test reactions to common allergens in patients with atopic eczema (Wagenpfeil et al). 1992;89:143-4 (Brief comm.)
- The role of eosinophils and eosinophil cationic protein in monitoring oral challenge tests in children with food-sensitive atopic dermatitis (Niggemann et al). 1994;94:963-71

Dermatitis, atopic, etiology
- Analysis of disease-associated amino acid epitopes on HLA class II molecules in atopic dermatitis (Saeki et al). 1995;96:1061-8 (Symposium)
- Antigen presenting cell-independent cytokine and spontaneous in vitro IgE production in patients with atopic dermatitis: increased interferon-γ production and lack of effects of in vivo low-dose interferon-γ treatment (Simon et al). 1995;96:84-91
- Assessment of eosinophil and neutrophil participation in atopic dermatitis: comparison with the IgE-mediated late-phase reaction (Ott et al). 1994;94:120-8
- Breast milk from mothers with children with newly developed atopic eczema has low levels of long chain polyunsaturated fatty acids (Businco et al). 1993;91:1134-9
- Chronologic analysis of in situ cytokine expression in mite allergen–induced dermatitis in atopic subjects (Yamada et al). 1995;96:1069-75 (Symposium)
- Decreased interferon gamma and increased interleukin-4 production in atopic dermatitis promotes IgE synthesis (Jujo et al). 1992;90:323-31
- Eosinophils in atopic dermatitis (Leiferman). 1994;94:1310-7 (Symposium)
- Evidence suggesting involvement of interleukin-4 (IL-4) production in spontaneous in vitro IgE synthesis in patients with atopic dermatitis (Vollenweider et al). 1991;87:1088-95
- HLA and atopic dermatitis with high serum IgE levels (Saeki et al). 1994;94:575-83 (Symposium)
- No relationship between skin-infiltrating T_{H2}-like cells and allergen-specific IgE response in atopic dermatitis (Virtanen et al). 1995;96:411-20
- The role of T lymphocytes in patients with food-sensitive atopic dermatitis (Kondo et al). 1993;91:658-68
- Skin-derived aeroallergen-specific T-cell clones of Th2 phenotype in patients with atopic dermatitis (van Reijsen et al). 1992;90:184-93

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- Immunochemical characterization of the distinct monocyte cyclic AMP-phosphodiesterase from patients with atopic dermatitis (Chan et al). 1993;91:1179-88
- Increased number of immunoreactive nerve fibers in atopic dermatitis (Tobin et al). 1992;90:613-22

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- Atopic dermatitis: the skin as a window into the pathogenesis of chronic allergic diseases (Leung). 1995;96:302-19 (CME article)
- A role for eosinophils in the pathogenesis of skin lesions in patients with food-sensitive atopic dermatitis (Magnarin et al). 1995;96:200-8

Dermatitis, atopic, therapy
- Do some patients with atopic dermatitis require long-term oral steroid therapy? (Sonenthal et al). 1993;91:971-3 (Rostrum)
- Effect of elimination diets on food-specific IgE antibodies and lymphocyte proliferative responses to food antigens in atopic dermatitis patients exhibiting sensitivity to food allergens (Agata et al). 1993;91:668-79
- Effectiveness of house dust-mite allergen avoidance through clean room therapy in patients with atopic dermatitis (Sanda et al). 1992;89:653-7

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- Allergic contact dermatomucositis to budesonide (Iglesias-Cadarso et al). 1994;94:559-60 (Brief comm.)
- Allergic contact reactions in health personnel (Fisher). 1992;90:729-38 (Postgrad. course)
- Atopic dermatitis: the skin as a window into the pathogenesis of chronic allergic diseases (Leung). 1995;96:302-19 (CME article)
- Bronchial asthma, rhinoconjunctivitis, and contact dermatitis caused by onion (Valdivieso et al). 1994;94:928-30 (Brief comm.)
- A combined respiratory and cutaneous hypersensitivity syndrome induced by work exposure to quaternary amines (Bernstein et al). 1994;94:257-9
- EMLA cream–induced allergic contact dermatitis: a role for prilocaine as an immunogen (Thakur and Murali). 1995;95:776-8 (Brief comm.)
- Latex allergy (Slater). 1994;94:139-50 (CME article)
- Latex-induced dermal and pulmonary hypersensitivity in rabbits (Reijula et al). 1994;94:891-902
- Mononuclear cell subsets in the nickel-allergic reaction in vitro and in vivo (Silvennoinen-Kassinen et al). 1992;89:794-800
- Occupational latex exposure: characteristics of contact and systemic reactions in 47 workers (Charous et al). 1994;94:12-8
- Products of arachidonic acid metabolism and the effects of cyclooxygenase inhibition on ongoing cutaneous allergic reactions in human beings (Atkins et al). 1995;95:742-7
- Regulation of allergen-specific immune responses by CD4+ CD45R+ cells in patients with allergic contact dermatitis (Baxevanis et al). 1994;94:917-27
- Task Force on Allergic Reactions to Latex. 1993;92:16-8 (Committee report)

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- Allergy and desensitization to zidovudine in patients with acquired immunodeficiency syndrome (AIDS) (Carr et al). 1993;91:683-5 (Brief comm.)
- Conjunctivitis medicamentosa (Spector and Raizman). 1994;94:134-6 (Brief comm.)
- Contact allergy to topical budesonide (Peris-Tortajada et al). 1991;87:597-8 (Brief rep.)
- Drug eruptions and isotypic antibody responses to streptokinase after infusions of anisoylated plasminogen-streptokinase complex (APSAC, anistreplase) (Dykewicz et al). 1995;95:1020-8
- Fixed drug eruption induced by mepivacaine (Torres et al). 1995;96:130-1 (Brief comm.)
- Sulfonamide-reactive lymphocytes detected at very low frequency in the peripheral blood of patients with drug-induced eruptions (Kalish et al). 1994;94:465-72

Dermatomucositis, allergic contact; *see* **Dermatitis, contact**

Dermatomyositis
- Elevated serum immunoglobulin E levels in patients with juvenile dermatomyositis (Hiketa et al). 1992;90:405-7 (Brief comm.)

Dermatophagoides; *see* **Mites**

[DesArg^{9}]-bradykinin; *see* **Bradykinin**

Desensitization, immunologic; *see also* **Immunotherapy**
- The appropriate use of skin testing and allergen immunotherapy in young children (Ownby and Adinoff). 1994;94:662-5
- Ciprofloxacin desensitization in a patient with cystic fibrosis (Lantner). 1995;96:1001-2 (Brief comm.)
- Desensitization of the adenylyl cyclase system in peripheral blood mononuclear cells from patients with asthma three hours after allergen challenge (Dooper et al). 1993;92:559-66
- Desensitization to trimethoprim/sulfamethoxazole in HIV-infected patients (Absar et al). 1994;93:1001-5

Guidelines to minimize the risk from systemic reactions caused by immunotherapy with allergenic extracts (AAAI). 1994;93:811-2 (Position statement)

Inhibition of monocyte leukotriene B_4 production after aspirin desensitization (Juergens et al). 1995;96:148-56

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Safety and efficacy of oral immunotherapy with standardized cat extract (Oppenheimer et al). 1994;93:61-7

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Suggested approaches for research protocols involving the potential for life-threatening reactions (Hamilos et al). 1993;91:1101-20 (Rostrum)

Vancomycin hypersensitivity: synergism with narcotics and "desensitization" by a rapid continuous intravenous protocol (Wong et al). 1994;94:189-94

Venom hypersensitivity (Reisman). 1994;94:651-60 (CME article)

Desethoxycarbonyl loratadine; *see* **Loratadine**

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Characterization of skin prick testing responses for detecting sensitization to detergent enzymes at extreme dilutions: inability of the RAST to detect lightly sensitized individuals (Bernstein et al). 1994;94:498-507

The effectiveness of benzyl benzoate and some essential plant oils as laundry additives for killing house dust mites (McDonald and Tovey). 1993;92:771-2 (Brief comm.)

The role of water temperature and laundry procedures in reducing house dust mite populations and allergen content of bedding (McDonald and Tovey). 1992;90:599-608

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The effect of dexamethasone, cyclosporine, and rapamycin on T-lymphocyte proliferation in vitro: comparison of cells from patients with glucocorticoid-sensitive and glucocorticoid-resistant chronic asthma (Haczku et al). 1994;93:510-9

Dextrans

Probable grade IV dextran-induced anaphylactic reaction despite hapten inhibition (Bircher et al). 1995;95:633-4 (Brief comm.)

Diabetes

Immunologic analysis of anaphylaxis to protamine component in neutral protamine Hagedorn human insulin (Dykewicz et al). 1994;93:117-25

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Atopic allergy and delayed hypersensitivity in children with diabetes (Strømberg et al). 1995;96:188-92

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Allergy prevention by maternal elimination diet during late pregnancy—a 5-year follow-up of a randomized study (Fälth-Magnusson and Kjellman). 1992;89:709-13

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The role of diet in the treatment of a patient with urticaria and urticarial vasculitis (Epstein et al). 1992;90:414-5 (Brief comm.)

Differentiated B cells; *see* **Cell differentiation**

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Soluble $Fc_{\varepsilon}R$ II levels in normal children and patients with immunodeficiency diseases (Jyonouchi et al). 1991;87:965-70

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The prevention of immediate generalized reactions to radiocontrast media in high-risk patients (Greenberger and Patterson). 1991;87:867-72

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Diptera

Epitope mapping with peptides of *Chi t* I component III and immunomodulation of the *Chi t* immune response (Liebers et al). 1993;92:334-9

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Disability evaluation in building-related health problems (Walsh and Solomon). 1994;94:376-9 (Symposium)

Disease models, animal

Involvement of immunologic mechanisms in a guinea pig model of Western red cedar asthma (Salari et al). 1994;93:877-84

Nedocromil sodium blocks the early and late phases of allergen challenge in a guinea pig model of asthma (Church et al). 1993;92:177-82 (Symposium)

The role of 5-lipoxygenase products in preclinical models of asthma (Wegner et al). 1993;91:917-29

Selective early increases of bronchoalveolar $CD8^+$ lymphocytes in a LEW rat model of hypersensitivity pneumonitis (Richerson et al). 1995;96:113-21

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Host susceptibility to indoor air pollution (Brooks). 1994;94:344-51 (Symposium)

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Characterization of *Der p* V allergen, cDNA analysis, and IgE-mediated reactivity to the recombinant protein (Lin et al). 1994;94:989-96

Complementary DNA cloning and expression in *Escherichia coli* of *Aln g* I, the major allergen in pollen of alder *(Alnus glutinosa)* (Breiteneder et al). 1992;90:909-17

DNA—Cont'd
Complementary DNA cloning of the major allergen *Phl p* I from timothy grass (*Phleum pratense*); recombinant *Phl p* I inhibits IgE binding to group I allergens from eight different grass species (Laffer et al). 1994;94:689-98
Gene therapy in the treatment of disease (Dickler and Collier). 1994;94:942-51 (Symposium synopsis)
Genetic analysis using DNA polymorphism of the linkage between chromosome 11q13 and atopy and bronchial hyperresponsiveness to methacholine (Lympany et al). 1992;89:619-28
Homology of a bovine allergen and the oligomycin sensitivity–conferring protein of the mitochondrial adenosine triphosphate synthase complex (Parkkinen et al). 1995;95:1255-60
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Molecular biology and immunology: an introduction (Rodgers and Rich). 1991;88:535-51 (Postgrad. course)
Structural investigations of the major allergen *Phl p* I on the complementary DNA and protein level (Petersen et al). 1995;95:987-94

Dog albumins; *see* **Albumins**

Dogs
Affinity purification of a major and a minor allergen from dog extract: serologic activity of affinity *Can f* I and of *Can f* I-depleted extract (de Groot et al). 1991;87:1056-65
Airborne cat (*Fel d* I), dog (*Can f* I), and mite (*Der* I and *Der* II) allergen levels in the homes of Japan (Sakaguchi et al). 1993;92:797-802
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Assay for the major dog allergen, *Can f* I: investigation of house dust samples and commercial dog extracts (Schou et al). 1991;88:847-53
Long-term follow-up of patients treated with a three-year course of cat or dog immunotherapy (Hedlin et al). 1995;96:879-85
Quantitative assessment of exposure to dog (*Can f* I) and cat (*Fel d* I) allergens: relation to sensitization and asthma among children living in Los Alamos, New Mexico (Ingram et al). 1995;96:449-56

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Dopamine
Antidopaminergic antibodies in a patient with a complex autoimmune disorder and rapidly progressing Parkinson's disease (Kunas et al). 1995;96:688-90 (Brief comm.)

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Dose-response relationship, drug
Budesonide treatment of moderate and severe asthma in children: a dose-response study (Pedersen and Hansen). 1995;95:29-33
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A dose-response study of the efficacy and safety of ipratropium bromide nasal spray in the treatment of the common cold (Diamond et al). 1995;95:1139-46

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A controlled dose-response study of immunotherapy with standardized, partially purified extract of house dust mite: clinical efficacy and side effects (Haugaard et al). 1993;91:709-22
Is there a dose-response relationship between exposure to indoor allergens and symptoms of asthma? (Platts-Mills et al). 1995;96:435-40 (Editorial)

Doxepin
Effect of topical doxepin cream on skin testing (Karaz et al). 1995;96:997-8 (Brief comm.)

Drowsiness; *see* **Sleep stages**

Drug administration schedule
Effects of dose and dosing schedule of inhaled budesonide on bone turnover (Toogood et al). 1991;88:572-80

Drug aerosol therapy; *see* **Administration, inhalation**

Drug antagonism
Effect of the H_2-antagonist cimetidine on the pharmacokinetics and pharmacodynamics of the H_1-antagonists hydroxyzine and cetirizine in patients with chronic urticaria (Simons et al). 1995;95:685-93

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Use of ipratropium bromide nasal spray in chronic treatment of nonallergic perennial rhinitis, alone and in combination with other perennial rhinitis medications (Grossman et al). 1995;95:1123-7

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Allergy and desensitization to zidovudine in patients with acquired immunodeficiency syndrome (AIDS) (Carr et al). 1993;91:683-5 (Brief comm.)
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Sulfonamide-reactive lymphocytes detected at very low frequency in the peripheral blood of patients with drug-induced eruptions (Kalish et al). 1994;94:465-72

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Comparison of azelastine and chlorpheniramine in the treatment of mastocytosis (Friedman et al). 1993;92:520-6

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Accelerated cell-mediated immune reactions in penicillin allergy (Warrington et al). 1993;92:626-8 (Brief comm.)
Activated T-lymphocytes and eosinophils in the bronchial mucosa in isocyanate-induced asthma (Bentley et al). 1992;89:821-9
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A new radioimmunoassay using a commercially available solid support for the detection of IgE antibodies against muscle relaxants (Guilloux et al). 1992;90:153-9
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Vancomycin hypersensitivity: synergism with narcotics and "desensitization" by a rapid continuous intravenous protocol (Wong et al). 1994;94:189-94

Drug synergism
Defect in potentiation of adenylyl cyclase correlates with bronchial hyperreactivity (Dooper et al). 1995;96:628-34
Vancomycin hypersensitivity: synergism with narcotics and "desensitization" by a rapid continuous intravenous protocol (Wong et al). 1994;94:189-94

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Drug withdrawal symptoms; *see* **Substance withdrawal syndrome**

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Dust
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Eggs

- Allergenicity and antigenicity of chicken egg ovomucoid (*Gal d* III) compared with ovalbumin (*Gal d* I) in children with egg allergy and in mice (Bernhisel-Broadbent et al). 1994;93:1047-59
- Bird-egg syndrome in childhood (Añíbarro et al). 1993;92:628-30 (Brief comm.)
- The IgE and IgG subclass antibody response to foods in babies during the first year of life and their relationship to feeding regimen and the development of food allergy (Kemeny et al). 1991;87:920-9
- Increase of ovalbumin (OVA)-specific B cells in the peripheral blood of egg-allergic patients (Ohshiba and Yata). 1991;87:729-36
- Relationship between oral challenges with previously uningested egg and egg-specific IgE antibodies and skin prick tests in infants with food allergy (Caffarelli et al). 1995;95:1215-20

Eicosanoids

- Inflammatory cells and eicosanoid mediators in subjects with late asthmatic responses and increases in airway responsiveness (Smith et al). 1992;89:1076-84
- Lipid bodies: intracellular sites for eicosanoid formation (Weller and Dvorak). 1994;94:1151-6 (Symposium)

Elderly; *see* **Aged**

Electrophoresis, gel

- Immunoblot analysis of components of *Penicillium notatum* recognized by human IgE antibodies (Shen et al). 1991;88:802-7

Electrophoresis, polyacrylamide gel

- Analysis of rat urine proteins and allergens by sodium dodecyl sulfate–polyacrylamide gel electrophoresis and immunoblotting (Gordon et al). 1993;92:298-305
- Basidiospore allergen release: elution from intact spores (Horner et al). 1993;92:306-12
- Identification of important allergens in German cockroach extracts by sodium dodecylsulfate–polyacrylamide gel electrophoresis and Western blot analysis (Musmand et al). 1995;95:877-85

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ELISA; *see* **Enzyme-linked immunosorbent assay**

Embolism, air

- Discussion of risk of scuba diving in individuals with allergic and respiratory diseases (SCUBA Subcommittee). 1995;96:871-3 (Editorial)

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- Underreporting of anaphylaxis in a community emergency room (Klein and Yocum). 1995;95:637-8 (Brief comm.)

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- Current concepts in the surgical management of chronic and recurrent acute sinusitis (Lanza and Kennedy). 1992;90:505-11 (Symposium)
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- Diagnosis of sinusitis in adults: history, physical examination, nasal cytology, echo, and rhinoscope (Druce). 1992;90:436-41 (Symposium)
- Endoscopic approach to sinus disease (Lusk). 1992;90:496-505 (Symposium)
- Rhinopharyngolaryngoscopy (Upper et al). 1993;91:961-2

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- The effects of cetirizine on the adhesion of human eosinophils and neutrophils to cultured human umbilical vein endothelial cells (Kyan-Aung et al). 1992;90:270-2 (Brief comm.)

Endothelins
- Constitutive expression of endothelin in bronchial epithelial cells of patients with symptomatic and asymptomatic asthma and modulation by histamine and interleukin-1 (Ackerman et al). 1995;96:618-27
- Levels of endothelin in the bronchoalveolar lavage fluid of patients with symptomatic asthma and reversible airflow obstruction (Mattoli et al). 1991;88:376-84

Endothelium
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- Expression of endothelial and leukocyte adhesion molecules intercellular adhesion molecule–1, E-selectin, and vascular cell adhesion molecule–1 in the bronchial mucosa in steady-state and allergen-induced asthma (Bentley et al). 1993;92:857-68

Endothelium, vascular
- Nasal challenge with allergen upregulates the local expression of vascular endothelial adhesion molecules (Lee et al). 1994;94:1006-16

Endothelium-derived relaxing factor
- Histamine-induced venodilation in human beings involves both H_1 and H_2 receptor subtypes (Dachman et al). 1994;93:606-14

Endotoxins
- Eosinophil-active cytokine from mononuclear cells cultured with L-tryptophan products: an unexpected consequence of endotoxin contamination (Kita et al). 1995;95:1261-7

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- Food protein–induced enterocolitis to casein hydrolysate formulas (Kelso and Sampson). 1993;92:909-10 (Brief comm.)

Environment
- Antigen avoidance in a mountain environment. II. Influence on basophil releasability in children with allergic asthma (Piacentini et al). 1993;92:644-50
- Effect of environmental factors on the development of allergic disorders in infancy (Arshad and Hide). 1992;90:235-41
- Effects of environment on atopic status and respiratory disorders in children (Corbo et al). 1993;92:616-23
- Environmental control and immunotherapy for allergic disease (Evans). 1992;90:462-8 (Symposium)
- House dust mite allergen import into a naturally mite-free environment (Walliser and Stadler). 1994;94:1073-4 (Brief comm.)

Environment, controlled
- Air cleaners: a review (Fox). 1994;94:413-6 (Symposium)
- Environmental control of chemical indoor air quality agents (Spaul). 1994;94:401-3 (Symposium)
- Environmental control of indoor biologic agents (Fernández-Caldas et al). 1994;94:404-12 (Symposium)

Environmental exposure; *see also* **Occupational diseases**
- Allergens in school dust: II. Major mite (*Der p* I, *Der f* I) allergens in dust from Swedish schools (Einarsson et al). 1995;95:1049-53 (Brief comm.)
- Building- and home-related complaints and illnesses: summary statement (Lockey). 1994;94:423-4 (Symposium)
- Effect of environmental molds on risk of death from asthma during the pollen season (Targonski et al). 1995;95:955-61
- Environmental control of chemical indoor air quality agents (Spaul). 1994;94:401-3 (Symposium)
- Environmental control of indoor biologic agents (Fernández-Caldas et al). 1994;94:404-12 (Symposium)
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- Identifying and measuring indoor biologic agents (Trudeau and Fernández-Caldas). 1994;94:393-400 (Symposium)
- Practice parameters for the diagnosis and treatment of asthma. VI. Asthma management (Nicklas and Spector). 1995;96:749-820
- Psychological aspects of "environmental illness," "multiple chemical sensitivity," and building-related illness (Salvaggio). 1994;94:366-70 (Symposium)
- Use and misuse of biomarker tests in "Environmental conditions" (Salvaggio). 1994;94:380-4 (Symposium)

Environmental molds; *see* **Mold**

Enzyme immunoasssay; *see* **Immunoenzyme techniques**

Enzyme tests
- Selection of representative *Alternaria* strain groups on the basis of morphology, enzyme profile, and allergen content (Portnoy et al). 1993;91:773-82

Enzyme-linked immunosorbent assay
- A comparison of cutaneous testing and ELISA testing for assessing reactivity to ethylene oxide-human serum albumin in hemodialysis patients with anaphylactic reactions (Grammer et al). 1991;87:674-6
- The detection of IgE-secreting cells in the peripheral blood of patients with atopic dermatitis (Dhanjal et al). 1992;89:895-904
- Diagnosis of soybean-induced asthma (Morell et al). 1995;96:320-4
- An ELISA spot assay for quantitation of human immunoglobulin-secreting cells (Mazer et al). 1991;88:235-43
- Environmental assay for cockroach allergens (Schou et al). 1991:87:828-34
- Evaluation of a worker with possible formaldehyde-induced asthma (Grammer et al). 1993;92:29-33
- Monoclonal antibodies to group II *Dermatophagoides* spp. allergens: murine immune response, epitope analysis, and development of a two-site ELISA (Ovsyannikova et al). 1994;94:537-46
- A novel immunoenzymatic method for the determination of global isocyanate antibodies: comparison with ELISA (Nany et al). 1992;89:781-2 (Brief comm.)
- Serum anti-*Aspergillus fumigatus* antibodies by immunoblot and ELISA in cystic fibrosis with allergic bronchopulmonary aspergillosis (Knutsen et al). 1994;93:926-31

Enzyme-linked immunospot assay
- Detection of specific IgE-secreting cells with an enzyme-linked immunospot assay (Shinomiya et al). 1993;92:479-87

Enzymes
- Characterization of skin prick testing responses for detecting sensitization to detergent enzymes at extreme dilutions: inability of the RAST to detect lightly sensitized individuals (Bernstein et al). 1994;94:498-507
- Diagnostic tests in enzyme allergy (Merget et al). 1993;92:264-77
- Natural and recombinant enzymatically active or inactive bee venom phospholipase A_2 has the same potency to release histamine from basophils in patients with Hymenoptera allergy (Förster et al). 1995;95:1229-35
- Respiratory allergy to *Aspergillus*-derived enzymes in bakers' asthma (Quirce et al). 1992;90:970-8

Eosinophil chemotactic factors; *see* **Chemotactic factors, eosinophil**

Eosinophilia
- Activated T cells and eosinophilia in bronchoalveolar lavages from subjects with asthma correlated with disease severity (Walker et al). 1991;88:935-42

Eosinophilia—Cont'd

- Adverse effects of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors associated with elevated serum IgE and eosinophils (Fosso et al). 1995;95:1053-5 (Brief comm.)
- Blood eosinophil number and activity in relation to lung function in patients with asthma and with eosinophilia (Griffin et al). 1991;87:548-57
- Chronic hyperplastic sinusitis: association of tissue eosinophilia with mRNA expression of granulocyte-macrophage colony-stimulating factor and interleukin-3 (Hamilos et al). 1993;92:39-48
- Effective long-term α-interferon treatment for hypereosinophilic syndrome (Canonica et al). 1995;96:131-3 (Brief comm.)
- Elevated production of interleukin-4 and interleukin-5 by T cells in a child with idiopathic hypereosinophilic syndrome (Takamizawa et al). 1994;93:1076-8 (Brief comm.)
- Eosinophilia in early-stage human immunodeficiency virus infection (Sanchez-Borges et al). 1993;92:494-5 (Brief comm.)
- Episodic eosinophilia-myalgia–like syndrome in a patient without L-tryptophan use: association with eosinophil activation and increased serum levels of granulocyte-macrophage colony–stimulating factor (Bochner et al). 1991;88:629-36
- Human eosinophils are more toxic than neutrophils in antibody-independent killing (Roberts et al). 1991;87:1105-15
- Increased circulating levels of interleukin-5 in a case of steroid-resistant hypereosinophilic syndrome with ileal involvement (Fang et al). 1994;94:129-31 (Brief comm.)
- Interleukin-5 production by T lymphocytes in atheroembolic disease with hypereosinophilia (Cogan et al). 1995;96:427-9 (Brief comm.)
- Mechanisms of allergic pulmonary eosinophilia in the mouse (Kung et al). 1994;94:1217-24 (Symposium)
- Nasal neutrophilia and eosinophilia induced by challenge with platelet activating factor (Tedeschi et al). 1994;93:526-33
- Peripheral blood eosinophilia in infants at 3 months of age is associated with subsequent development of atopic disease in early childhood (Borres et al). 1995;95:694-8
- Pulmonary function, activated T cells, peripheral blood eosinophils, and serum activity for eosinophil survival in vitro: a longitudinal study in bronchial asthma (Virchow et al). 1994;94:240-9
- Release of granule proteins by eosinophils from allergic and nonallergic patients with eosinophilia on immunoglobulin-dependent activation (Tomassini et al). 1991;88:365-75
- Response of six patients with idiopathic hypereosinophilic syndrome to interferon alfa (Butterfield and Gleich). 1994;94:1318-26 (Symposium)
- Sézary syndrome with elevated serum IgE and hypereosinophilia: role of dysregulated cytokine production (Borish et al). 1993;92:123-31
- Skin eosinophilia in patients with allergic and nonallergic asthma and atopic dermatitis (Bruijnzeel-Koomen et al). 1992;89:52-9
- Skin eosinophilia in patients with allergic asthma, patients with nonallergic asthma, and healthy controls (Bruijnzeel et al). 1993;91:634-42

Eosinophilic pneumonia; *see* **Pulmonary eosinophilia**

Eosinophils, chemistry

- Analysis of cellular and biochemical constituents of induced sputum after allergen challenge: a method for studying allergic airway inflammation (Fahy et al). 1994;93:1031-9
- Biochemical properties, activities, and presence in biologic fluids of eosinophil granule major basic protein (Popken-Harris et al). 1994;94:1282-9 (Symposium)
- Biochemical properties of eosinophils and their preferential accumulation mechanism in nasal allergy (Terada et al). 1994;94:629-42 (Symposium)
- Characteristics of CR3-mediated aggregation in human eosinophils: effect of priming by platelet-activating factor (Koenderman et al). 1991;87:947-54
- Development of markers for human basophils and mast cells (Schwartz and Kepley). 1994;94:1231-40 (Symposium)
- Evaluation of serum eosinophilic cationic protein as a marker of disease activity in chronic asthma (Ferguson et al). 1995;95:23-8
- Total serum IgE and eosinophil count in children with and without a history of asthma, wheezing, or atopy in an urban community in Indonesia (Kartasamita et al). 1994;94:981-8

Eosinophils, drug effects

- Effect of a topical corticosteroid on airway hyperresponsiveness and eosinophilic inflammation induced by trimellitic anhydride exposure in sensitized guinea pigs (Hayes et al). 1993;92:450-6
- Effect of antigen dose on the recruitment of inflammatory cells to the lung by segmental antigen challenge (Dupuis et al). 1992;89:850-7
- The effect of immunotherapy on eosinophil accumulation and production of eosinophil chemotactic activity in the lung of subjects with asthma during natural pollen exposure (Rak et al). 1991;88:878-88
- Effect of inhaled beclomethasone dipropionate on expression of proinflammatory cytokines and activated eosinophils in the bronchial epithelium of patients with mild asthma (Wang et al). 1994;94:1025-34
- Effect of inhaled corticosteroids on peripheral blood eosinophil counts and density profiles in asthma (Evans et al). 1993;91:643-50
- Effect of interleukin-5 and granulocyte-macrophage colony stimulating factor on in vitro eosinophil function: comparison with airway eosinophils (Sedgwick et al). 1995;96:375-85
- The effect of platelet-activating factor on the generation of superoxide anion in human eosinophils and neutrophils (Zoratti et al). 1991;88:749-58
- The effect of recombinant human interleukin-5 on eosinophil accumulation and degranulation in human nasal mucosa (Terada et al). 1992;90:160-8
- Effect of steroids on immunoglobulin-induced eosinophil degranulation (Kita et al). 1991;87:70-7
- The effects of cetirizine on the adhesion of human eosinophils and neutrophils to cultured human umbilical vein endothelial cells (Kyan-Aung et al). 1992;90:270-2 (Brief comm.)
- The effects of eosinophil-granule major basic protein on lung-macrophage superoxide anion generation (Rankin et al). 1992;89:746-52
- The effects of glucocorticoids on human eosinophils (Schleimer and Bochner). 1994;94:1202-13 (Symposium)
- Gold sodium thiomalate selectivity inhibits interleukin-5–mediated eosinophil survival (Suzuki et al). 1995;96:251-6
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- Induction of granule release by intracellular application of Ca and guanosine-5′-O-(3-thiotriphosphate) in human eosinophils (Aizawa et al). 1992;90:789-95
- Inhibition of eosinophil density change and leukotriene C_4 generation by nedocromil sodium (Sedgwick et al). 1992;90:202-9
- Inhibitory effect of cetirizine on the bronchial eosinophil recruitment induced by allergen inhalation challenge in allergic patients with asthma (Rédier et al). 1992;90:215-24
- Lack of effect of cetirizine on early and late asthmatic response after allergen challenge (de Bruin-Weller et al). 1994;94:231-9
- Topical glucocorticoids inhibit activation by allergen in the upper respiratory tract (Lozewicz et al). 1992;89:951-7

Eosinophils, immunology

- Immunotherapy decreases antigen-induced eosinophil cell migration into the nasal cavity (Furin et al). 1991:88:27-32

Eosinophils, pathology

- Assessment of eosinophil and neutrophil participation in atopic dermatitis: comparison with the IgE-mediated late-phase reaction (Ott et al). 1994;94:120-8
- Asthma and inflammation (Kay). 1991;87:893-910 (CME article)
- Basophil and eosinophil differentiation in allergic reactions (Denburg et al). 1994;94:1135-41 (Symposium)
- Basophils and eosinophils in allergic rhinitis (Naclerio et al). 1994;94:1303-9 (Symposium)
- Blood and bronchoalveolar eosinophils in allergic subjects after segmental antigen challenge: surface phenotype, density heterogeneity, and prostanoid production (Kroegel et al). 1994;93:725-34

Comparison of platelet-activating factor–induced chemotaxis of normodense and hypodense eosinophils (Little and Casale). 1991;88:187-92
Correlation of bronchial eosinophil and mast cell activation with bronchial hyperresponsiveness in children with asthma (Ferguson et al). 1992;90:609-13
Cytokine control of eosinophils in pulmonary diseases (Walker et al). 1994;94:1262-71 (Symposium)
Cytokines and allergy (Vadas et al). 1994;94:1289-93 (Symposium)
Degranulation of eosinophils from pollen-atopic patients with asthma is increased during pollen season (Carlson et al). 1992;89:131-9
Eosinophil adhesion in allergic inflammation (Wardlaw et al). 1994;94:1163-71 (Symposium)
Eosinophil-active cytokine from mononuclear cells cultured with L-tryptophan products: an unexpected consequence of endotoxin contamination (Kita et al). 1995;95:1261-7
Eosinophilic and neutrophilic inflammation in asthma, chronic bronchitis, and chronic obstructive pulmonary disease (Lacoste et al). 1993;92:537-48
Eosinophilic inflammation is associated with elevation of interleukin-5 in the airways of patients with spontaneous symptomatic asthma (Sur et al). 1995;96:661-8
Eosinophils and basophils in allergic airway inflammation (Busse et al). 1994;94:1251-4 (Symposium)
Eosinophils in atopic dermatitis (Leiferman). 1994;94:1310-7 (Symposium)
Eosinophils in exercise-induced asthma (Venge et al). 1991;88:699-704
Eosinophils in nasal polyps and nasal mucosa: an immunohistochemical study (Stoop et al). 1993;91:616-22
Eosinophils, T-lymphocytes, mast cells, neutrophils, and macrophages in bronchial biopsy specimens from atopic subjects with asthma: comparison with biopsy specimens from atopic subjects without asthma and normal control subjects and relationship to bronchial hyperresponsiveness (Bradley et al). 1991;88:661-74
Exercise-induced asthma: a role for the eosinophil? (Busse). 1991;88:696-8 (Editorial)
Expression of transforming growth factors-α and β_1 messenger RNA and product by eosinophils in nasal polyps (Elovic et al). 1994;93:864-9
Immunohistology of the nasal mucosa in seasonal allergic rhinitis: increases in activated eosinophils and epithelial mast cells (Bentley et al). 1992;89:877-83
In vivo expression of CD69 on lung eosinophils in eosinophilic pneumonia: CD69 as a possible activation marker for eosinophils (Nishikawa et al). 1992;90:169-74
Indirect evidence of nasal inflammation assessed by titration of inflammatory mediators and enumeration of cells in nasal secretions of patients with chronic rhinitis (Knani et al). 1992;90:880-9
Interleukin-2 and lymphocyte-induced eosinophil proliferation and survival in asthmatic patients (Yang and Renzi). 1993;91:792-801
Leukocyte responses to experimental infection with human rhinovirus (Thomas et al). 1994;94:1255-62 (Symposium)
Nasal polyps: effects of seasonal allergen exposure (Keith et al). 1994;93:568-74
Pulmonary eosinophils express HLA-DR in chronic eosinophilic pneumonia (Beninati et al). 1993;92:442-9
Response of six patients with idiopathic hypereosinophilic syndrome to interferon alfa (Butterfield and Gleich). 1994;94:1318-26 (Symposium)
A role for eosinophils in the pathogenesis of skin lesions in patients with food-sensitive atopic dermatitis (Magnarin et al). 1995;96:200-8
The role of eosinophils and eosinophil cationic protein in monitoring oral challenge tests in children with food-sensitive atopic dermatitis (Niggemann et al). 1994;94:963-71
Serum eosinophil cationic protein during treatment of asthma in children (Juntunen-Backman et al). 1993;92:34-8
Serum eosinophil cationic protein (ECP) in human immunodeficiency virus (HIV) infection (Paganelli et al). 1991;88:416-8 (Brief comm.)
The skin as a model to study the pathogenesis of IgE-mediated acute and late-phase responses (Charlesworth). 1994;94:1240-50 (Symposium)
Soluble interleukin-2 receptor and cellular profiles in bronchoalveolar lavage fluid from patients with bronchial asthma (Park et al). 1993;91:623-33
Urinary eosinophil-derived neurotoxin in Churg-Strauss syndrome (Cottin et al). 1995;96:261-4 (Brief comm.)

Eosinophils, physiology
Acquisition of lymphokine-producing phenotype by CD4+ T cells (Seder). 1994;94:1195-202 (Symposium)
Activated T-lymphocytes and eosinophils in the bronchial mucosa in isocyanate-induced asthma (Bentley et al). 1992;89:821-9
Activation of CD4+ T cells, increased T$_{H_2}$-type cytokine mRNA expression, and eosinophil recruitment in bronchoalveolar lavage after allergen inhalation challenge in patients with atopic asthma (Robinson et al). 1993;92:313-24
β-Adrenergic regulation of the eosinophil respiratory burst as detected by lucigenin-dependent luminescence (Hadjokas et al). 1995;95:735-41
Blood eosinophil number and activity in relation to lung function in patients with asthma and with eosinophilia (Griffin et al). 1991;87:548-57
Blood eosinophil numbers and activity during 24 hours: effects of treatment with budesonide and bambuterol (Wempe et al). 1992;90:757-64
The clinical relevance of basophil releasability (Marone et al). 1994;94:1293-303 (Symposium)
Cytokine generation by eosinophils (Moqbel et al). 1994;94:1183-8 (Symposium)
Cytokine generation by human basophils (Schroeder et al). 1994;94:1189-95 (Symposium)
Cytokines and eosinophil-derived cationic proteins upregulate intercellular adhesion molecule-1 on human nasal epithelial cells (Altman et al). 1993;92:527-36
Development of nasal basophilic cells and nasal eosinophils from age 4 months through 4 years in children of atopic parents (Zeiger and Heller). 1993;91:723-34
Distinguishing features of basophil and neutrophil activation by major basic protein (Thomas et al). 1994;94:1171-6 (Symposium)
Eosinophil cationic protein stimulates and major basic protein inhibits airway mucus secretion (Lundgren et al). 1991;87:689-98
Eosinophil granule proteins inhibit substance P–induced histamine release from human skin mast cells (Okayama et al). 1994;93:900-8
Eosinophil infiltration precedes development of airway hyperreactivity and mucosal exudation after intranasal administration of interleukin-5 to mice (Van Oosterhout et al). 1995;96:104-12
Eosinophil major basic protein enhances the expression of neutrophil CR3 and p150,95 (Moy et al). 1993;92:598-606
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The eosinophil-mediated antitumor activity of interleukin-4 (Tepper). 1994;94:1225-31 (Symposium)
Evidence of ongoing mast cell and eosinophil degranulation in symptomatic asthma airway (Broide et al). 1991;88:637-48
Function and expression of adhesion molecules on human basophils (Bochner et al). 1994;94:1157-62 (Symposium)
The high-affinity IgE receptor on eosinophils: From allergy to parasites or from parasites to allergy? (Soussi Gounni et al). 1994;94:1214-6 (Symposium)
Human eosinophils are more toxic than neutrophils in antibody-independent killing (Roberts et al). 1991;87:1105-15
Identification of the major activity derived from cultured human peripheral blood mononuclear cells, which enhances eosinophil viability, as granulocyte macrophage colony-stimulating factor (GM-CSF) (Burke et al). 1991;88:226-35
IL-4 upregulates FcεRIα -chain messenger RNA in eosinophils (Terada et al). 1995;96:1161-9 (Symposium)

Eosinophils, physiology—Cont'd

Increased adhesion to vascular cell adhesion molecule-1 and intercellular adhesion molecule-1 of eosinophils from patients with asthma (Håkansson et al). 1995;96:941-50

Initial events in FcεRI signal transduction (Scharenberg and Kinet). 1994;94:1142-6 (Symposium)

Lipid bodies: intracellular sites for eicosanoid formation (Weller and Dvorak). 1994;94:1151-6 (Symposium)

Mast cells and eosinophils in the allergic mucosal response to allergen challenge: changes in distribution and signs of activation in relation to symptoms (Juliusson et al). 1992;90:898-909

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The phenotype of human eosinophils, basophils, and mast cells (Valent). 1994;94:1177-83 (Symposium)

Platelet-activating factor stimulates a rapid accumulation of inositol (1,4,5) triphosphate in guinea pig eosinophils: relationship to calcium mobilization and degranulation (Kroegel et al). 1991;88:114-24

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Release of granule proteins by eosinophils from allergic and nonallergic patients with eosinophilia on immunoglobulin-dependent activation (Tomassini et al). 1991;88:365-75

The role of adhesion molecules in human eosinophil and basophil recruitment (Bochner and Schleimer). 1994;94:427-39 (CME article)

Secretion of granule proteins from eosinophils and neutrophils is increased in asthma (Carlson et al). 1991;87:27-33

Signal transduction: mechanisms in basophils (MacGlashan). 1994;94:1146-51 (Symposium)

Similarities in the ultrastructural morphology and developmental and secretory mechanisms of human basophils and eosinophils (Dvorak). 1994;94:1103-34 (Symposium)

Synthesis of interleukin-1α, interleukin-6, and interleukin-8 by cultured human nasal epithelial cells (Kenney et al). 1994;93:1060-7

Tyrosine phosphorylation and inositol phosphate production: Are early events in human eosinophil activation stimulated by immobilized secretory IgA and IgG? (Kita et al). 1994;94:1272-81 (Symposium)

Ephedrine

Comparative efficacy and safety of a once-daily loratadine-pseudoephedrine combination versus its components alone and placebo in the management of seasonal allergic rhinitis (Bronsky et al). 1995;96:139-47

Ephedrine-saline nasal wash in allergic rhinitis (Shaikh). 1995;96:597-600

The prevention of immediate generalized reactions to radiocontrast media in high-risk patients (Greenberger and Patterson). 1991;87:867-72

Epicoccum nigrum

The allergens of *Epicoccum nigrum* link. I. Identification of the allergens by immunoblotting (Dixit et al). 1992;90:11-20

Epidermal nerves

Modulation of Langerhans cell function by epidermal nerves (Asahina et al). 1995;96:1178-82 (Symposium)

Epinephrine

The use of epinephrine in the treatment of anaphylaxis (AAAI Board of Directors). 1994;94:666-8 (Position statement)

Epithelial cells

Allergic subjects express intercellular adhesion molecule—1 (ICAM-1 or CD54) on epithelial cells on conjunctiva after allergen challenge (Ciprandi et al). 1993;91:783-92

Bronchial epithelial cells of patients with asthma release chemoattractant factors for T-lymphocytes (Bellini et al). 1993;92:412-24

Constitutive expression of endothelin in bronchial epithelial cells of patients with symptomatic and asymptomatic asthma and modulation by histamine and interleukin-1 (Ackerman et al). 1995;96:618-27

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Evidence of intercellular adhesion molecule-1 expression on nasal epithelial cells in acute rhinoconjunctivitis caused by pollen exposure (Ciprandi et al). 1994;94:738-46

Protective effect of nedocromil sodium on the interleukin-1–induced production of interleukin-8 in human bronchial epithelial cells (Vittori et al). 1992;90:76-84

Role of neutrophils in mediating human epithelial cell detachment from native basement membrane (Venaille et al). 1995;95:597-606

Synthesis of interleukin-1α, interleukin-6, and interleukin-8 by cultured human nasal epithelial cells (Kenney et al). 1994;93:1060-7

Epithelium

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Effect of antigen on the glycoconjugate profile of tracheal secretions and the epithelial glycocalyx in allergic sheep (Mariassy et al). 1994;93:585-93

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Estimation of nasal epithelial lining fluid using urea as a marker (Kaulbach et al). 1993;92:457-65

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Histochemical and functional characteristics of metachromatic cells in the nasal epithelium in allergic rhinitis: studies of nasal scrapings and their dispersed cells (Otsuka et al). 1995;96:528-36

Human bronchial epithelial cells modulate CD3 and mitogen-induced DNA synthesis in T cells but function poorly as antigen-presenting cells compared to pulmonary macrophages (Mezzetti et al). 1991;87:930-8

Immunohistology of the nasal mucosa in seasonal allergic rhinitis: increases in activated eosinophils and epithelial mast cells (Bentley et al). 1992;89:877-83

Epitopes; *see* **Antigenic determinants**

Epitopes, immunodominant; *see* **Immunodominant epitope**

Equipment and supplies

Comparative performance of five commercial prick skin test devices (Nelson et al). 1993;92:750-6

Comparison of the sensitivity and precision of four skin test devices (Engler et al). 1992;90:985-91

Evaluation of the Multi-Test device for immediate hypersensitivity skin testing (Berkowitz et al). 1992;90:979-85

Rhinopharyngolaryngoscopy (Upper et al). 1993;91:961-2

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In vitro detection of specific IgE antibodies to erythromycin (Pascual et al). 1995;95:668-71

Respiratory mucus hypersecretion (bronchorrhea): a case discussion—possible mechanism(s) and treatment (Marom and Goswami). 1991;87:1050-5

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Complementary DNA cloning and expression in *Escherichia coli* of *Aln g* I, the major allergen in pollen of alder *(Alnus glutinosa)* (Breiteneder et al). 1992;90:909-17

E-selectin

Expression of endothelial and leukocyte adhesion molecules intercellular adhesion molecule–1, E-selectin, and vascular cell adhesion molecule–1 in the bronchial mucosa in steady-state and allergen-induced asthma (Bentley et al). 1993;92:857-68

Ethics

Report of the Committee on the Role and Care of Animals in Research (Becker and Krzanowski). 1992;89:140

Ethmoidectomy
Endoscopic approach to sinus disease (Lusk). 1992;90:496-505 (Symposium)
Surgical modalities other than ethmoidectomy (Lusk). 1992;90:538-42 (Symposium)

Ethylene oxide
A comparison of cutaneous testing and ELISA testing for assessing reactivity to ethylene oxide-human serum albumin in hemodialysis patients with anaphylactic reactions (Grammer et al). 1991;87:674-6
Ethylene oxide allergy in children with spina bifida (Pittman et al). 1995;96:486-8

Euroglyphus maynei; *see* **Fungi**

Evan's syndrome
IgG2 and IgG4 subclass deficiency and Evan's syndrome in an adult patient (Villiger et al). 1992;90:693-4 (Brief comm.)

Evaporative coolers; *see* **Air conditioning**

Exercise; *see also* **Asthma, exercise induced**
Effects of a thromboxane-receptor antagonist, BAY u 3405, on prostaglandin D_2- and exercise-induced bronchoconstriction (Magnussen et al). 1992;89:1119-26
The effects of H_2-receptor antagonists on exercise refractoriness in asthma (Manning et al). 1992;90:125-6 (Brief comm.)
Elevated serum tryptase in exercise-induced anaphylaxis (Schwartz). 1995;95:917-9 (Brief comm.)
Food-dependent, exercise-induced anaphylaxis: a study on 11 Japanese cases (Dohi et al). 1991;87:34-40
Late asthmatic responses after exercise challenge are reproducible (Speelberg et al). 1991;87:1128-37
The protective effect of low-dose inhaled fenoterol against methacholine and exercise-induced bronchoconstriction in asthma: a dose-response study (Magnussen and Rabe). 1992;90:846-51
Rehabilitation of a patient with asthma in the outpatient setting (Strunk et al). 1991;87:601-11 (CME article)
Stimulation of dispersed nasal polyp cells by hyperosmolar solutions (Souques et al). 1995;96:980-5
Terfenadine ineffective in the prophylaxis of exercise-induced pruritus (Duffull and Begg). 1992;89:916-7 (Brief comm.)
Urinary leukotriene E_4 after exercise challenge in children with asthma (Kikawa et al). 1992;89:1111-9

Exercise test
Airway responsiveness to allergen is increased 24 hours after exercise challenge (Koh et al). 1994;94:507-16
The distribution of bronchial responsiveness to histamine and exercise in 527 children and adolescents (Backer et al). 1991;88:68-76
Guidelines for the diagnosis of asthma. IX. Exercise-induced asthma. 1991;88:519-22
The preventive effect of nedocromil or furosemide alone or in combination on exercise-induced asthma in children (Novembre et al). 1994;94:201-6

Exercise-induced asthma; *see* **Asthma, exercise-induced**

Expiratory flow; *see* **Peak expiratory flow rate**

Expiratory signs and symptoms; *see* **Signs and symptoms, respiratory**

Extracellular matrix
Mechanisms of neutrophil damage to human alveolar extracellular matrix: the role of serine and metalloproteases (Palmgren et al). 1992;89:905-15

Extrinsic allergic alveolitis; *see* **Alveolitis, extrinsic allergic**

Eye
Adverse reaction to ocular cromolyn sodium (Redfern and Serafin). 1992;90:866 (Brief comm.)
Allergic and immunologic disorders of the eye (Bielory and Frohman). 1992;89:1-18 (CME article)
Conjunctival hyperresponsiveness to ocular histamine challenge in patients with vernal conjunctivitis (Bonini et al). 1992;89:103-7
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Histamine eye (Freeman and Woodford). 1991;87:1034 (Brief rep.)
Ocular challenge and hyperresponsiveness to histamine in patients with allergic conjunctivitis (Ciprandi et al). 1993;91:1227-30 (Brief comm.)
Precision of conjunctival provocation tests in right and left eyes (Aichane et al). 1993;92:49-55

Eye drops; *see* **Ophthalmic solutions**

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Face
Atopic dermatitis of the face, scalp, and neck: Type I reaction to the yeast *Pityrosporum ovale*? (Jensen-Jarolim et al). 1992;89:44-51

Faculty, medical
Enhancing academic allergy/immunology faculty and training programs (deShazo and Frank). 1991;88:818 (Training program)

False negative reactions
Comparative performance of five commercial prick skin test devices (Nelson et al). 1993;92:750-6

Farmer's lung
Difference in the phenotypes of bronchoalveolar lavage lymphocytes in patients with summer-type hypersensitivity pneumonitis, farmer's lung, ventilation pneumonitis, and bird fancier's lung: report of a nationwide epidemiologic study (Ando et al). 1991;87:1002-9

Fast food restaurants; *see* **Restaurants**

Fatalities; *see* **Death**

Fatty acids, unsaturated
Breast milk from mothers with children with newly developed atopic eczema has low levels of long chain polyunsaturated fatty acids (Businco et al). 1993;91:1134-9

FCεRI; *see* **Receptors, IgE**

FcERI-IgG; *see* **IgG**

FcεII; *see* **Receptors, IgE**

FcεRI α-chain messenger; *see* **Receptors, IgE**

***Fel d* I**; *see* **Allergens**; **Cats**

***Felis domesticus* allergen**; *see* **Allergens**

Fenoterol
Effective site of bronchodilation by antiasthma drugs in subjects with asthma (Yanai et al). 1991;87:1080-7
The protective effect of low-dose inhaled fenoterol against methacholine and exercise-induced bronchoconstriction in asthma: a dose-response study (Magnussen and Rabe). 1992;90:846-51

Fetal blood
In utero exposure to parental smoking, cotinine measurements, and cord blood IgE (Oryszczyn et al). 1991;87:1169-74
Maternal smoking does not influence cord serum IgE or IgD concentrations (Ownby et al). 1991;88:555-60
Predictive values of cord blood IgE and cord blood lymphocyte responses to food antigens in allergic disorders during infancy (Kobayashi et al). 1994;94:907-16

Fibrin
Activation of the coagulation pathway during ongoing allergic cutaneous reactions in humans (Atkins et al). 1992;89:552-9
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Fibrinolysis
Activation of the contact system and fibrinolysis in autoimmune acquired angioedema: a rationale for prophylactic use of tranexamic acid (Cugno et al). 1994;93:870-6

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Effect of coculture of rodent mast cells with murine chronic graft-versus-host disease (cGVHD)–derived fibroblasts (Levi-Schaffer et al). 1992;89:501-9

Finland
Immunoglobulin E reactivity to latex antigens in the sera of patients from Finland and the United States (Kurup et al). 1993;91:1128-34

Fire ants; *see* **Ants**; ***Hymenoptera***

Fish bait, live

Asthma caused by live fish bait (Siracusa et al). 1994;93:424-30

Fish oils

Effect of dietary fish oil supplementation on the antigen-induced late-phase response in the skin (Thien et al). 1992;89:829-35

Fishes

Fish hypersensitivity. I. In vitro and oral challenge results in fish-allergic patients (Bernhisel-Broadbent et al). 1992;89:730-7

Fish hypersensitivity. II. Clinical relevance of altered fish allergenicity caused by various preparation methods (Bernhisel-Broadbent et al). 1992;90:622-9

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FK-506

Immunosuppression in the treatment of disease (Dickler and Albright). 1994;93:669-76 (Symposium)

Reduction of FK-506 requirements by combination with polyethylene glycol superoxide dismutase in orthotopic rat liver transplantation (Rao et al). 1995;95:1276-81

Floors and floor coverings

Benzyl benzoate moist powder: investigation of acarical activity in cultures and reduction of dust mite allergens in carpets (Hayden et al). 1992;89:536-45

Chemical treatment of carpets to reduce allergen: a detailed study of the effects of tannic acid on indoor allergens (Woodfolk et al). 1994;94:19-26

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Direct exposure of carpets to sunlight can kill all mites (Tovey and Woolcock). 1994;93:1072-4 (Brief comm.)

Suffocating odor and asthma after Acarosan-powder carpet treatment (Wolf). 1992;89:637-8 (Brief comm.)

Flour

Rhinitis and asthma caused by occupational exposure to carob bean flour (van der Brempt et al). 1992;90:1008-10 (Brief comm.)

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Decreased frequency of interferon-γ– and interleukin-2–producing cells in patients with atopic diseases measured at the single cell level (Jung et al). 1995;96:515-27

Detection of decreased cytotoxic effector CD8+ T lymphocytes in atopic dermatitis by flow cytometry (McCoy et al). 1992;90:688-90 (Brief comm.)

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Immediate type of allergy in statis growers (Ueda et al). 1992;90:742-8

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The role of the peak flow meter in the diagnosis and management of asthma (Cross and Nelson). 1991;87:120-8 (Rostrum)

Flunisolide

Intranasal flunisolide spray as an adjunct to oral antibiotic therapy for sinusitis (Meltzer et al). 1993;92:812-23

The placebo effect is nothing to sneeze at (Spector). 1992;90:1042-3 (Symposium)

Fluocortin butyl

Intranasal fluocortin butyl in patients with perennial rhinitis: a 12-month efficacy and safety study including nasal biopsy (Orgel et al). 1991;88:257-64

Fluorescein

Prophylaxis against fluorescein-induced anaphylactoid reactions (Rohr and Pappano). 1992;90:407-8 (Brief comm.)

Fluorescent antibody technique

Modification of the fluorescent allergosorbent test as an inhibition assay for determination of cross-reactivity among aeroallergens (Perrick et al). 1991;87:98-103

Fluphenazine

Rhinorrhea related to antipsychotic drug therapy (Orfan and Kolski). 1993;91:681-2 (Brief comm.)

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A clinicopathologic study of ten patients with recurrent unexplained flushing (Friedman et al). 1994;93:53-60

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Fluticasone propionate aerosol for the treatment of adults with mild to moderate asthma (Chervinsky et al). 1994;94:676-83

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Topical glucocorticoids inhibit activation by allergen in the upper respiratory tract (Lozewicz et al). 1992;89:951-7

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Allergenicity screening of "hypoallergenic" milk-based formulas (Oldæus et al). 1992;90:133-5 (Brief comm.)

Challenge confirmation of late-onset reactions to extensively hydrolyzed formulas in infants with multiple food protein intolerance (Hill et al). 1995;96:386-94

Development of immune response to cow's milk proteins in infants receiving cow's milk or hydrolyzed formula (Vaarala et al). 1995;96:917-23

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In vitro lymphocyte proliferation with milk and a casein–whey protein hydrolyzed formula in children with cow's milk allergy (Eigenmann et al). 1995;96:549-57

Residual antigenicity of hypoallergenic infant formulas and the occurrence of milk-specific IgE antibodies in patients with clinical allergy (van Beresteijn et al). 1995;96:365-74

Food and Drug Administration; *see* **United States Food and Drug Administration**

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Anaphylaxis after ingestion of beignets contaminated with *Dermatophagoides farinae* (Erben et al). 1993;92:846-9

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Adverse reaction to lupine-fortified pasta (Hefle et al). 1994;94:167-72

Allergenic cross-reactivity among peach, apricot, plum, and cherry in patients with oral allergy syndrome: an in vivo and in vitro study (Pastorello et al). 1994;94:699-707

Allergenicity of peanut and soybean extracts altered by chemical or thermal denaturation in patients with atopic dermatitis and positive food challenges (Burks et al). 1992;90:889-97

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Effect of elimination diets on food-specific IgE antibodies and lymphocyte proliferative responses to food antigens in atopic dermatitis patients exhibiting sensitivity to food allergens (Agata et al). 1993;91:668-79

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Food allergy and the role of immunotherapy (Sampson). 1992;90:151-2 (Editorial)

Food-dependent, exercise-induced anaphylaxis: a study on 11 Japanese cases (Dohi et al). 1991;87:34-40

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Allergenicity and antigenicity of chicken egg ovomucoid (*Gal d* III) compared with ovalbumin (*Gal d* I) in children with egg allergy and in mice (Bernhisel-Broadbent et al). 1994;93:1047-59

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The development and prediction of atopy in high-risk children: follow-up at age seven years in a prospective randomized study of combined maternal and infant food allergen avoidance (Zeiger and Heller).1995;95:1179-90

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The IgE and IgG subclass antibody response to foods in babies during the first year of life and their relationship to feeding regimen and the development of food allergy (Kemeny et al). 1991;87:920-9

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Predictive values of cord blood IgE and cord blood lymphocyte responses to food antigens in allergic disorders during infancy (Kobayashi et al). 1994;94:907-16

Relationship between oral challenges with previously uningested egg and egg-specific IgE antibodies and skin prick tests in infants with food allergy (Caffarelli et al). 1995;95:1215-20

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Sensitization (IgE antibody) to food allergens in wheezing infants and children (Price et al). 1995;96:266-70 (Brief comm.)

The treatment in school of children who have food allergies (Adverse). 1991;87:749-51 (Brief rep.)

Food intake; *see* **Eating**

Forced air heating; *see* **Heating**

Forced expiratory volume

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Effect of multiple doses of nedocromil sodium given after allergen inhalation in asthma (Crimi et al). 1993;92:777-83

Is reactive airways dysfunction syndrome a variant of occupational asthma? (Gautrin et al). 1994;93:12-22

Forecasting

Findings before the diagnosis of asthma in young adults (Dodge et al). 1994;94:831-5

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Evaluation of a worker with possible formaldehyde-induced asthma (Grammer et al). 1993;92:29-33

Serum IgE and IgG to formaldehyde-human serum albumin: lack of relation to gaseous formaldehyde exposure and symptoms (Dykewicz et al). 1991;87:48-57

Formoterol

The effect of formoterol on the late asthmatic phenomena in guinea pigs (Sugiyama et al). 1992;89:858-66

Formoterol—Cont'd
- Effect of solution and suspension type aerosol of formoterol on tremor response and airways in patients with asthma (Bauer et al). 1995;96:495-501
- Late asthmatic reaction decreased after pretreatment with salbutamol and formoterol, a new long-acting β_2-agonist (Palmqvist et al). 1992;89:844-9
- Protective effect and duration of action of inhaled formoterol and salbutamol on exercise-induced asthma in children (Henriksen et al). 1992;89:1176-82

Formyl-peptide; *see* **Peptides**

Fractures
- Bone mineral density and the risk of fracture in patients receiving long-term inhaled steroid therapy for asthma (Toogood et al). 1995;96:157-66

Framycetin
- Severe anaphylactic reaction to topical administration of framycetin (Proebstle et al). 1995;96:429-30 (Brief comm.)

Fruit
- Allergenic cross-reactivity among peach, apricot, plum, and cherry in patients with oral allergy syndrome: an in vivo and in vitro study (Pastorello et al). 1994;94:699-707
- Allergy to latex, avocado pear, and banana: evidence for a 30 kd antigen in immunoblotting (Lavaud et al). 1995;95:557-64
- Banana allergy in patients with immediate-type hypersensitivity to natural rubber latex: characterization of cross-reacting antibodies and allergens (Mäkinen-Kiljunen). 1994;93:990-6
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- Cross-reactivity between latex and banana (M'Raihi et al). 1991;87:129-30 (Brief rep.)
- Identification of allergens in fruits and vegetables: IgE cross-reactivities with the important birch pollen allergens Bet v 1 and Bet v 2 (birch profilin) (Ebner et al). 1995;95:962-9
- Kiwi fruit allergy: a new birch pollen–associated with food allergy (Gall et al). 1994;94:70-6
- Partial cross-reactivity between latex and banana allergens (Ross et al). 1992;90:409-10 (Brief comm.)
- Pollen-related allergy to peach and apple: an important role for profilin (van Ree et al). 1995;95:726-34

Funding, capital; *see* **Capital financing**

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- Allergenic exposure, IgE-mediated sensitization, and related symptoms in lawn cutters (Gautrin et al). 1994;93:437-45
- The allergens of *Epicoccum nigrum* link. I. Identification of the allergens by immunoblotting (Dixit et al). 1992;90:11-20
- Allergic *Rhizomucor* sinusitis (Goldstein et al). 1992;90:394-404 (Allergy grand rounds)
- Amphotericin B: emergency challenge in a neutropenic, asthmatic patient with fungal sepsis (Kemp and Lockey). 1995;96:425-7 (Brief comm.)
- Comparison of *Psilocybe cubensis* spore and mycelium allergens (Helbling et al). 1993;91:1059-66
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- Effect of environmental molds on risk of death from asthma during the pollen season (Targonski et al). 1995;95:955-61
- Indoor viable dust-bound microfungi in relation to residential characteristics, living habits, and symptoms in atopic and control children (Wickman et al). 1992;89:752-9
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Fungicide
- Occupational asthma induced by a carpet fungicide—tributyl tin oxide (Shelton et al). 1992;90:274-5 (Brief comm.)

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- The preventive effect and duration of action of two doses of inhaled furosemide on exercise-induced asthma in children (Novembre et al). 1995;96:906-9
- The preventive effect of nedocromil or furosemide alone or in combination on exercise-induced asthma in children (Novembre et al). 1994;94:201-6
- Relative potencies and time course of changes in adenosine 5′-monophosphate airway responsiveness with inhaled furosemide and bumetanide in asthma (Polosa et al). 1993;92:288-97
- Release of chemical mediators and inflammatory cell influx during early allergic reaction in the nose: effect of furosemide (Prat et al). 1993;92:248-54
- Steroid-sparing effect of inhaled lysine acetylsalicylate and furosemide in high-dose beclomethasone–dependent asthma (Bianco et al). 1995;95:937-43

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Fusion proteins, recombinant; *see* **Recombinant fusion proteins**

G

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Gastric adenocarcinoma; *see* **Adenocarcinoma**

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Gel electrophoresis, polyacrylamide; *see* **Electrophoresis, gel**

Gelatin
- Anaphylaxis to measles, mumps, and rubella vaccine mediated by IgE to gelatin (Kelso et al). 1993;91:867-72
- IgE antibody to gelatin in children with immediate-type reactions to measles and mumps vaccines (Sakaguchi et al). 1995;96:563-5 (Brief comm.)

Gender; *see* **Sex**

Gender factors; *see* **Sex factors**

Gene activation; *see* **Gene expression regulation**

Gene expression
- Defective interleukin-2 and interferon-γ gene expression in response to antigen in a subgroup of patients with common variable immunodeficiency (Fischer et al). 1993;92:340-52
- Glucocorticoids suppressed production and gene expression of interleukin-5 by peripheral blood mononuclear cells in atopic patients and normal subjects (Okayama et al). 1994;93:1006-12
- Signals and nuclear factors that regulate the expression of interleukin-4 and interleukin-5 genes in helper T cells (Lee et al). 1994;94:594-604 (Symposium)

Gene expression regulation
- Activation of early response genes and cell proliferation by human interleukin-3, granulocyte-macrophage colony-stimulating factor,

- and interleukin-5 receptors: comparison with human interleukin-4 receptor signaling (Chen et al). 1994;94:605-11 (Symposium)

Gene therapy
- Gene therapy in the treatment of disease (Dickler and Collier). 1994;94:942-51 (Symposium synopsis)

General anesthesia; *see* **Anesthesia, general**

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- Activation of early response genes and cell proliferation by human interleukin-3, granulocyte-macrophage colony-stimulating factor, and interleukin-5 receptors: comparison with human interleukin-4 receptor signaling (Chen et al). 1994;94:605-11 (Symposium)
- Association of class II sequences encoding DR1 and DQ5 specificities with hypersensitivity to chironomid allergen *Chi t* I (Tautz et al). 1994;93:918-25
- Detection of allergen-induced genes in peripheral blood mononuclear cells of patients with allergic asthma using subtractive hybridization (Fukuda et al). 1995;96:1076-82 (Symposium)
- Detection of interleukin-5 messenger RNA and interleukin-5 protein in bronchial biopsies from asthma by nonradioactive in situ hybridization and immunohistochemistry (Fukuda et al). 1994;94:584-93 (Symposium)
- Gene structures of the α subunits of human IL-3 and granulocyte-macrophage colony-stimulating factor receptors: comparison with the cytokine receptor superfamily (Kosugi et al). 1995;96:1115-25 (Symposium)
- The genetics of atopy (Cookson). 1994;94:643-4 (Symposium)
- HLA and atopic dermatitis with high serum IgE levels (Saeki et al). 1994;94:575-83 (Symposium)
- Lack of primary association between transporter associated with antigen processing genes and atopic dermatitis (Kuwata et al). 1995;96:1051-60 (Symposium)
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- Regulation of the expression of IL-2 and IL-5 genes and the role of proteins related to nuclear factor of activated T cells (Tsuruta et al). 1995;96:1126-35 (Symposium)
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- Possible role of tyrosine kinase activity in interleukin 4–induced expression of germ-line Cε transcripts in a human Burkitt lymphoma B-cell line, DND39 (Ikizawa et al). 1994;94:620-4 (Symposium)

Germinal lymphoid follicles
- Localization of IgE to lung germinal lymphoid follicles in a patient with allergic bronchopulmonary aspergillosis (Slavin et al). 1992;90:1006-8 (Brief comm.)

Ginseng
- Occupational asthma caused by Brazil ginseng dust (Subiza et al). 1991;88:731-6

Gloves
- Allergic contact reactions in health personnel (Fisher). 1992;90:729-38 (Postgrad. course)
- Characterization of latex antigens and allergens in surgical gloves and natural rubber by immunoelectrophoretic methods (Mäkinen-Kiljunen et al). 1992;90:230-5
- Prevalence of latex allergy in operating room nurses (Lagier et al). 1992;90:319-22

Gloves, surgical
- Extractable latex allergens and proteins in disposable medical gloves and other rubber products (Yunginger et al). 1994;93:836-42

Glucocorticoid receptors; *see* **Receptors, glucocorticoid**

Glucocorticoids
- Delivery of glucocorticoids by jet nebulization: aerosol characteristics and output (Leflein et al). 1995;95:944-9
- The effect of dexamethasone, cyclosporine, and rapamycin on T-lymphocyte proliferation in vitro: comparison of cells from patients with glucocorticoid-sensitive and glucocorticoid-resistant chronic asthma (Haczku et al). 1994;93:510-9
- Effect of low-dose methotrexate on the disposition of glucocorticoids and theophylline (Glynn-Barnhart et al). 1991;88:180-6
- Effect of steroids on immunoglobulin-induced eosinophil degranulation (Kita et al). 1991;87:70-7
- The effects of glucocorticoids on human eosinophils (Schleimer and Bochner). 1994;94:1202-13 (Symposium)
- Glucocorticoid therapy for asthma: clinical pharmacology (Szefler). 1991;88:147-65 (Postgrad. course)
- Glucocorticoids suppressed production and gene expression of interleukin-5 by peripheral blood mononuclear cells in atopic patients and normal subjects (Okayama et al). 1994;93:1006-12
- High-dose systemic glucocorticoid therapy in the treatment of severe asthma: a case of resistance and patterns of response (Kamada et al). 1992;90:685-7 (Brief comm.)
- In vivo effects of glucocorticoids on IgE production (Zieg et al). 1994;94:222-30
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- Topical glucocorticoids inhibit activation by allergen in the upper respiratory tract (Lozewicz et al). 1992;89:951-7

Glucocorticosteroids
- Comparison of oral pulse methotrexate with placebo in the treatment of severe glucocorticosteroid-dependent asthma (Stewart et al). 1994;94:482-9

Glutaral
- Occupational asthma in a technologist exposed to glutaraldehyde (Chan-Yeung et al). 1993;91:974-8

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- Ibuprofen augments bradykinin-induced glycoconjugate secretion by human nasal mucosa in vivo (Baraniuk et al). 1992;89:1032-9
- In vivo detection of a novel macrophage-derived protein involved in the regulation of nasal mucus-like glycoconjugate secretion (Sperber et al). 1993;92:581-8
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- Source of the aeroallergen of soybean dust: a low molecular mass glycopeptide from the soybean tela (Swanson et al). 1991;87:783-8

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- Fine specificity of B-cell epitopes on *Felis domesticus* allergen I (*Fel d* I): effect of reduction and alkylation or deglycosylation on *Fel d* I structure and antibody binding (Vailes et al). 1994;93:22-33

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Gold sodium thiomalate
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Government agencies
- Indoor air quality medicolegal issues (Ross and Lockey). 1994;94:417-22 (Symposium)

Gp55; *see* **Allergens**

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Effect of coculture of rodent mast cells with murine chronic graft-versus-host disease (cGVHD)–derived fibroblasts (Levi-Schaffer et al). 1992;89:501-9

Monoclonal anti-T cell (T12) antibody treatment of graft-versus-host disease in severe combined immunodeficiency: targeting of antibody and activation of complement on $CD8^+$ cytotoxic T cell surfaces (Blomquist et al). 1991;87:1029-33

Grains; *see* **Cereals**

Granule proteins; *see* **Proteins**

Granule release

Induction of granule release by intracellular application of Ca and guanosine-5′-O-(3-thiotriphosphate) in human eosinophils (Aizawa et al). 1992;90:789-95

Granulocyte-macrophage colony-stimulating factor

Activation of early response genes and cell proliferation by human interleukin-3, granulocyte-macrophage colony-stimulating factor, and interleukin-5 receptors: comparison with human interleukin-4 receptor signaling (Chen et al)

Chronic hyperplastic sinusitis: association of tissue eosinophilia with mRNA expression of granulocyte-macrophage colony-stimulating factor and interleukin-3 (Hamilos et al). 1993;92:39-48

Differential expression of granulocyte-macrophage colony-stimulating factor and IL-3 receptor subunits on human $CD34^+$ cells and leukemic cell lines (Kurata et al). 1995;96:1083-99 (Symposium)

Effect of interleukin-5 and granulocyte-macrophage colony stimulating factor on in vitro eosinophil function: comparison with airway eosinophils (Sedgwick et al). 1995;96:375-85

Granulocyte-macrophage colony-stimulating factor stimulates macrophages to respond to IgE via the low affinity IgE receptor (CD23) (Matz et al). 1994;93:650-7

Histamine release from human basophils induced by platelet activating factor: the role of extracellular calcium, interleukin-3, and granulocyte-macrophage colony-stimulating factor (Columbo et al). 1995;95:565-73

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Granulocyte-macrophage colony-stimulating factor receptors; *see* **Receptors, granulocyte-macrophage colony-stimulating factor**

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Effects of nedocromil sodium on in vitro induced migration, activation, and mediator release from human granulocytes (Bruijnzeel et al). 1993;92:159-64 (Symposium)

Expression of the potent inflammatory cytokines, granulocyte-macrophage–colony-stimulating factor and interleukin-6 and interleukin-8, in bronchial epithelial cells of patients with asthma (Marini et al). 1992;89:1001-9

Grass pollen; *see* **Pollen**

Grasses

Allergenic exposure, IgE-mediated sensitization, and related symptoms in lawn cutters (Gautrin et al). 1994;93:437-45

Allergic rhinitis to ragweed pollen. I. Reassessment of the effects of immunotherapy on cellular and humoral responses (Brunet et al). 1992;89:76-86

Allergic rhinitis to ragweed pollen. II. Modulation of histamine-releasing factor production by specific immunotherapy (Brunet et al). 1992;89:87-94

Characterization of grass group I allergens in timothy grass pollen (Petersen et al). 1993;92:789-96

Characterization of the isoforms of the group I allergen of *Cynodon dactylon* (Chang et al). 1995;95:1206-14

Characterization of the major allergen of *Cynodon dactylon* (Bermuda grass) pollen, *Cyn d* I (Matthiesen et al). 1991;88:763-74

Clinical and immunologic reactivity of patients allergic to grass pollens and to multiple pollen species. I. Clinical and immunologic characteristics (Bousquet et al). 1991;87:737-46

Complementary DNA cloning of the major allergen *Phl p* I from timothy grass (*Phleum pratense*); recombinant *Phl p* I inhibits IgE binding to group I allergens from eight different grass species (Laffer et al). 1994;94:689-98

Differences in clinical and immunologic reactivity of patients allergic to grass pollens and to multiple-pollen species. II. Efficacy of a double-blind, placebo-controlled, specific immunotherapy with standardized extracts (Bousquet et al). 1991;88:43-53

Effect of intranasal azelastine and beclomethasone dipropionate on nasal symptoms, nasal cytology, and bronchial responsiveness to methacholine in allergic rhinitis in response to grass pollens (Pelucchi et al). 1995;95:515-23

Effects of immunotherapy on the early, late, and rechallenge nasal reaction to provocation with allergen: changes in inflammatory mediators and cells (Iliopoulos et al). 1991;87:855-66

Evaluation of variables influencing the outcome of the atopy patch test (Langeveld-Wildschut et al). 1995;96:66-73

Identification of anti-idiotypic antibodies in the sera of ryegrass-allergic and nonallergic individuals (Valacer et al). 1991;88:349-55

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Immunologic characterization of a recombinant Kentucky bluegrass (*Poa pratensis*) allergenic peptide (Yang et al). 1991;87:1096-104

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Immunotherapy decreases antigen-induced eosinophil cell migration into the nasal cavity (Furin et al). 1991;88:27-32

Increased concentrations of airborne grass allergen during lawn mowing (Kernerman et al). 1992;90:131-3 (Brief comm.)

Inhibition of different dosages of oxatomide or placebo on skin prick test and nasal allergen provocation (Piacentini et al). 1991;88:218-25

Lol p XI, a new major grass pollen allergen, is a member of a family of soybean trypsin inhibitor–related proteins (van Ree et al). 1995;95:970-8

Major allergen *Phl p* Va (timothy grass) bears at least two different IgE-reactive epitopes (Bufe et al). 1994;94:173-81

Modification of the fluorescent allergosorbent test as an inhibition assay for determination of cross-reactivity among aeroallergens (Perrick et al). 1991;87:98-103

Occupational asthma caused by grass juice (Subiza et al). 1995;96:693-5 (Brief comm.)

Quantitative IgE- and IgG-subclass responses during and after long-term ragweed immunotherapy (Peng et al). 1992;89:519-29

A reduction in allergen-induced FcεR2/CD23 expression on peripheral B cells correlates with successful hyposensitization in grass pollinosis (Jung et al). 1995;95:77-87

Skin eosinophilia in patients with allergic and nonallergic asthma and atopic dermatitis (Bruijnzeel-Koomen et al). 1992;89:52-9

Structural investigations of the major allergen *Phl p* I on the complementary DNA and protein level (Petersen et al). 1995;95:987-94

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Use of monoclonal antibodies to isolate and characerize *Cyn d* I, the major allergen of Bermuda grass pollen (Han et al). 1993;92:549-58

Grasshoppers

Inhalant atopic sensitivity to grasshoppers in research laboratories (Soparkar et al). 1993;92:61-5

Green algae; *see* **Algae, green**

Green beans; *see* **Legumes**

Greenhouse workers; *see* **Occupational exposure**

Growth disorders

Shwachman-Diamond syndrome associated with hypogammaglobulinemia and growth hormone deficiency (Kornfeld et al). 1995;96:247-50

Growth substances

Abnormal response to a human B cell growth factor in patients with common variable immunodeficiency (CVI) (Ambrus et al). 1991;87:1138-49

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- Acarex test correlates with monoclonal antibody test for dust mites (Ransom et al). 1991;87:886-8 (Brief rep.)
- Comparison between *Der p* I plus *Der f* I content determinations and guanine measurements in 239 house dust samples (Hoyet et al). 1991;88:678-80 (Brief comm.)
- Comparison of the ACAREX test with monoclonal antibodies for the quantification of mite allergens (van der Brempt et al). 1991;87:130-2 (Brief rep.)

Guanosine
- Induction of granule release by intracellular application of Ca and guanosine-5´-O-(3-thiotriphosphate) in human eosinophils (Aizawa et al). 1992;90:789-95

Guinea pig model; *see* **Disease models, animal**

Gutta-percha
- Gutta-percha allergy in a health care worker with latex allergy (Boxer et al). 1994;93:943-4 (Brief comm.)

H

H1 receptor blockaders; *see* **Histamine H1 receptor blockaders**

Hagedorn human insulin; *see* **Insulin**

Hair
- Netherton's syndrome: a syndrome of elevated IgE and characteristic skin and hair findings (Smith et al). 1995;95:116-23
- Occupational allergy caused by urticating hair of Brazilian spider (Castro et al). 1995;95:1282-5 (Brief comm.)

H_1-antihistamines; *see* **Histamine H1 receptor blockaders**

Haptens
- Probable grade IV dextran-induced anaphylactic reaction despite hapten inhibition (Bircher et al). 1995;95:633-4 (Brief comm.)

Hay fever, diagnosis
- Changes in bronchial responsiveness following nasal provocation with allergen (Corren et al). 1992;89:611-8
- Comparisons of inflammatory responses in IgE-mediated and codeine-induced skin reactions (Zweiman et al). 1993;91:963-5 (Brief comm.)
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- Effect of six-hour exposure to nitrogen dioxide on early-phase nasal response to allergen challenge in patients with a history of seasonal allergic rhinitis (Wang et al). 1995;96:669-76
- Mast cells and eosinophils in the allergic mucosal response to allergen challenge: changes in distribution and signs of activation in relation to symptoms (Juliusson et al). 1992;90:898-909
- Vaginal itching as a manifestation of seasonal allergic disease (Dhaliwal and Fink). 1995;95:781-2 (Brief comm.)

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- Allergic rhinitis to ragweed pollen. I. Reassessment of the effects of immunotherapy on cellular and humoral responses (Brunet et al). 1992;89:76-86
- Allergic rhinitis to ragweed pollen. II. Modulation of histamine-releasing factor production by specific immunotherapy (Brunet et al). 1992;89:87-94
- Aqueous beclomethasone dipropionate in the treatment of ragweed pollen–induced rhinitis: further exploration of "as needed" use (Juniper et al). 1993;92:66-72
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- Clinical evaluation of the efficacy and safety of noberastine, a new H_1 antagonist, in seasonal allergic rhinitis: a placebo-controlled, dose-response study (Knight et al). 1991;88:926-34
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- Determinants of patient compliance with allergen immunotherapy (Cohn and Pizzi). 1993;91:734-7
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- Effect of intranasal azelastine and beclomethasone dipropionate on nasal symptoms, nasal cytology, and bronchial responsiveness to methacholine in allergic rhinitis in response to grass pollens (Pelucchi et al). 1995;95:515-23
- Effects of immunotherapy on the early, late, and rechallenge nasal reaction to provocation with allergen: changes in inflammatory mediators and cells (Iliopoulos et al). 1991;87:855-66
- Fluticasone propionate given once daily is as effective for seasonal allergic rhinitis as beclomethasone dipropionate given twice daily (Ratner et al). 1992;90:285-91
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- Intranasal steroids inhibit seasonal increases in ragweed-specific immunoglobulin E antibodies (Naclerio et al). 1993;92:717-21
- Levocabastine nasal spray better than sodium cromoglycate and placebo in the topical treatment of seasonal allergic rhinitis (Schata et al). 1991;87:873-8
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- HLA-DR4–associated nonresponsiveness to mountain-cedar allergen (Reid et al). 1992;89:593-8
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Hay fever, immunology
- Immunohistology of the nasal mucosa in seasonal allergic rhinitis: increases in activated eosinophils and epithelial mast cells (Bentley et al). 1992;89:877-83

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- Lymphocyte infiltration and thickness of the nasal mucous membrane in perennial and seasonal allergic rhinitis (Calderón et al). 1994;93:635-43
- Nasal cholinergic hyperresponsiveness in atopic subjects studied out of season (White). 1993;92:278-87
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Hazel pollen; *see* **Pollen**

Health care reform

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Health personnel

Allergic contact reactions in health personnel (Fisher). 1992;90:729-38 (Postgrad. course)

Comparison of latex hypersensitivity among patients with neurologic defects (Konz et al). 1995;95:950-4

Gutta-percha allergy in a health care worker with latex allergy (Boxer et al). 1994;93:943-4 (Brief comm.)

Heating

Does forced air heating exacerbate asthma? (Dales et al). 1992;90:803-7

Heat-shock proteins

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Homes
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Humidity
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Hybridomas
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Hydrocortisone
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20-Hydroxy-leukotriene B_4; *see* **Leukotrienes B**
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3-Hydroxy-3-methylglutaryl coenzyme A; *see* **Coenzyme A**
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Analyses of microvascular permeability in response to mediators of immediate hypersensitivity (Keahey et al). 1991;87:586-94

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Relationships between total serum IgE, atopy, and smoking: a twenty-year follow-up analysis (Sherrill et al). 1994;94:954-62

Releasability of human basophils: cellular sensitivity and maximal histamine release are independent variables (MacGlashan). 1993;91:605-15

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The genetics of atopy (Cookson). 1994;94:643-4 (Symposium)

Hypersensitivity, immediate, immunology

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Hypersensitivity pneumonitis; *see* **Alveolitis, extrinsic allergic**

Hypertension

Hypertension during reduction of long-term steroid therapy in young subjects with asthma (Sanders et al). 1992;89:816-21

Hyperthermia, induced

The effect of local hyperthermia on allergen-induced nasal congestion and mediator release (Johnston et al). 1993;92:850-6

Hypertonic saline; *see* **Saline solution**

Hypertonic saline solution; *see* **Saline solution, hypertonic**

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Salmeterol, a new inhaled beta_2-adrenergic agonist, has a longer blocking effect than albuterol on hyperventilation-induced bronchoconstriction (Malo et al). 1992;89:567-74

Hypoallergenic infant formula; *see* **Food, formulated**

Hypogammaglobulinemia; *see* **Agammaglobulinemia**

X-linked agammaglobulinemia presenting as transient hypogammaglobulinemia of infancy (Kornfeld et al). 1995;95:915-7 (Brief comm.)

Hyposensitization therapy; *see* **Desensitization, immunologic**

Hyposmia; *see* **Smell**

Hypotension

Acute consumption of C1 inhibitor in a patient with acquired C1-inhibitor deficiency syndrome (Zuraw and Altman). 1991;88:908-18

Catecholamine responses to histamine infusion in man (Schellenberg et al). 1991;87:499-504

I

Ibuprofen

Ibuprofen augments bradykinin-induced glycoconjugate secretion by human nasal mucosa in vivo (Baraniuk et al). 1992;89:1032-9

ICAM-1; *see* **Cell adhesion molecules**

ICI 204,219

Effect of the oral leukotriene antagonist, ICI 204,219, on antigen-induced bronchoconstriction in subjects with asthma (Findlay et al). 1992;89:1040-5

Idiopathic anaphylaxis; *see* **Anaphylaxis**

Idiopathic urticuria; *see* **Urticaria**

Idiotypes; *see* **Immunoglobulin idiotypes**

IFN-γ; *see* **Interferon-gamma, recombinant**

IgA

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Reduced secretion of IgA to skin surface of patients with atopic dermatitis (Imayama et al). 1994;94:195-200

Tyrosine phosphorylation and inositol phosphate production: Are early events in human eosinophil activation stimulated by immobilized secretory IgA and IgG? (Kita et al). 1994;94:1272-81 (Symposium)

IgA, deficiency

Immunoglobulin deficiency syndromes and therapy (Huston et al). 1991;87:1-17 (CME article)

IgA, secretory

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IgD

Maternal smoking does not influence cord serum IgE or IgD concentrations (Ownby et al). 1991;88:555-60

IgE

Adverse effects of 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors associated with elevated serum IgE and eosinophils (Fosso et al). 1995;95:1053-5 (Brief comm.)

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Anaphylaxis to methotrexate: a possible IgE-mediated mechanism (Vega et al). 1994;94:268-70 (Brief comm.)

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Assessment of eosinophil and neutrophil participation in atopic dermatitis: comparison with the IgE-mediated late-phase reaction (Ott et al). 1994;94:120-8

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Characterization of *Der p* V allergen, cDNA analysis, and IgE-mediated reactivity to the recombinant protein (Lin et al). 1994;94:989-96

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A comparative study of the effects of 1-acyl-2-acetyl-*sn*-glycero-3-phosphocholine and platelet activating factor on histamine and leukotriene C_4 release from human leukocytes (Columbo et al). 1993;92:325-33

Comparisons of inflammatory responses in IgE-mediated and codeine-induced skin reactions (Zweiman et al). 1993;91:963-5 (Brief comm.)

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Decreased interferon gamma and increased interleukin-4 production in atopic dermatitis promotes IgE synthesis (Jujo et al). 1992;90:323-31

Detection of human IgE to sulfamethoxazole by skin testing with sulfamethoxazoyl-poly-L-tyrosine (Gruchalla and Sullivan). 1991;88:784-92

The detection of IgE-secreting cells in the peripheral blood of patients with atopic dermatitis (Dhanjal et al). 1992;89:895-904

Effect of elimination diets on food-specific IgE antibodies and lymphocyte proliferative responses to food antigens in atopic dermatitis patients exhibiting sensitivity to food allergens (Agata et al). 1993;91:668-79

The effect of time and extraction buffers on residual protein and allergen content of extracts derived from four strains of *Alternaria* (Portnoy et al). 1993;91:930-8

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Elevation of IgE in HIV-infected subjects: a marker of poor prognosis (Israël-Biet et al). 1992;89:68-75

Enhanced human IgE production results from exposure to the aromatic hydrocarbons from diesel exhaust: direct effects on B-cell IgE production (Takenaka et al). 1995;95:103-15

Enhancement of IgE production by anti-CD40 antibody in atopic dermatitis (Renz et al). 1994;93:658-68

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Functional significance of IL-4 receptor on B cells in IL-4–induced human IgE production (Yanagihara et al). 1995;96:1145-51 (Symposium)
Granulocyte-macrophage colony-stimulating factor stimulates macrophages to respond to IgE via the low affinity IgE receptor (CD23) (Matz et al). 1994;93:650-7
High-frequency binding of IgE to the *Der p* allergen expressed in yeast (Chua et al). 1992;89:95-102
Histamine-releasing factors and inhibitors: historical perspectives and possible implications in human illness (Grant et al). 1991;88:683-93 (CME article)
HLA and atopic dermatitis with high serum IgE levels (Saeki et al). 1994;94:575-83 (Symposium)
Hypersensitivity pneumonitis (extrinsic allergic alveolitis) induced by isocyanates (Baur). 1995;95:1004-10
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IgE antibodies in tick bite–induced anaphylaxis (Van Wye et al). 1991;88:968-70 (Brief comm.)
IgE antibodies to recombinant forms of *Fel d* I: dichotomy between fluid-phase and solid-phase binding studies (Slunt et al). 1995;95:1221-8
IgE binding to a human profilin–containing fraction caused by contamination with yeast-derived material (Pasmans et al). 1995;96:696-7 (Brief comm.)
IgE cross-reactivities against albumins in patients allergic to animals (Spitzauer et al). 1995;96:951-9
IgE epitopes on the cat *(Felis domesticus)* major allergen *Fel d* I: a study with overlapping synthetic peptides (van Milligen et al). 1994;93:34-43
IgE produces monocyte superoxide anion release: correlation with CD23 expression (Demoly et al). 1994;93:108-16
IgE regulation and lymphokine patterns in aging humans (Al-Rayes et al). 1992;90:630-6
IgE regulation by nematodes: the body fluid of *Ascaris* contains a B-cell mitogen (Lee and Xie). 1995;95:1246-54
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IgE+ cells in the peripheral blood of atopic, nonatopic, and bee venom–hypersensitive individuals exhibit the phenotype of highly differentiated B cells (Donohoe et al). 1995;95:587-96
Immediate type of allergy in statis growers (Ueda et al). 1992;90:742-8
Immunoglobulin concentrations in nasal secretions differ between patients with an IgE-mediated rhinopathy and a non-IgE–mediated rhinopathy (Swart et al). 1991;88:612-9
Immunoglobulin E reactivity to latex antigens in the sera of patients from Finland and the United States (Kurup et al). 1993;91:1128-34
In utero exposure to parental smoking, cotinine measurements, and cord blood IgE (Oryszczyn et al). 1991;87:1169-74
In vitro detection of specific IgE antibodies to erythromycin (Pascual et al). 1995;95:668-71
In vivo effects of glucocorticoids on IgE production (Zieg et al). 1994;94:222-30
Inhibition of IgE- and non-IgE-mediated histamine release from human basophil leukocytes in vitro by a histamine H_1-antagonist, desethoxycarbonyl-loratadine (Kleine-Tebbe et al). 1994;93:494-500
Inhibition of neutrophil functions by human immunoglobulin E (Al-Mohanna et al). 1993;92:757-66
Initial events in FcεRI signal transduction (Scharenberg and Kinet). 1994;94:1142-6 (Symposium)
Interleukin-4 receptor expression by human B cells: functional analysis with a human interleukin-4 toxin, DAB_{389}IL-4 (Jabara et al). 1995;95:893-900
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Localization of IgE to lung germinal lymphoid follicles in a patient with allergic bronchopulmonary aspergillosis (Slavin et al). 1992;90:1006-8 (Brief comm.)
Lol p I-induced IL-4 and IFN-γ production by peripheral blood mononuclear cells of atopic and nonatopic subjects during and out of the pollen season (Gagnon et al). 1993;91:950-6
Major allergen *Phl p* Va (timothy grass) bears at least two different IgE-reactive epitopes (Bufe et al). 1994;94:173-81
Major differences in specificity among naturally occurring human IgG-subclass anti-IgE autoantibodies (Magnusson). 1995;95:1011-9
Maternal smoking does not influence cord serum IgE or IgD concentrations (Ownby et al). 1991;88:555-60
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No relationship between skin-infiltrating T_{H2}-like cells and allergen-specific IgE response in atopic dermatitis (Virtanen et al). 1995;96:411-20
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Pokeweed mitogen induces IgE synthesis in the presence of a blocking antibody to the interferon-γ receptor (Jujo et al). 1993;91:1206-16
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Reduction of allergic reactions in patients undergoing long-term hemodialysis (Cavaillon et al). 1993;92:355-7 (Brief comm.)
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Regulation of IgE and IgG_4 responses by allergen specific T-cell clones to bee venom phospholipase A_2 in vitro (Carballido et al). 1994;93:758-67
Regulation of IgE synthesis in humans (Geha). 1992;90:143-50 (Postgrad. course)
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Relationship between serum IgE and airway responsiveness in adults with asthma (Sunyer et al). 1995;95:699-706
Relationships between total serum IgE, atopy, and smoking: a twenty-year follow-up analysis (Sherrill et al). 1994;94:954-62

Releasability of human basophils: cellular sensitivity and maximal histamine release are independent variables (MacGlashan). 1993;91:605-15
Release of eosinophil granule proteins during IgE-mediated allergic skin reactions (Zweiman et al). 1991;87:984-92
Role of protein tyrosine kinases in CD40/interleukin-4–mediated isotype switching to IgE (Loh et al). 1994;94:784-92
The role of T lymphocytes in patients with food-sensitive atopic dermatitis (Kondo et al). 1993;91:658-68
Selection of Hymenoptera venoms for immunotherapy on the basis of patient's IgE antibody cross-reactivity (Hamilton et al). 1993;92:651-9
Sensitization to *Blomia tropicalis* and *Lepidoglyphus destructor* in *Dermatophagoides* spp–allergic individuals (Llerena et al). 1991;88:943-50
Serum IgE and IgG to formaldehyde-human serum albumin: lack of relation to gaseous formaldehyde exposure and symptoms (Dykewicz et al). 1991;87:48-57
Serum IgE in nonatopic smokers, nonsmokers, and recent exsmokers: relation to lung function, airway symptoms, and atopic predisposition (Jensen et al). 1992;90:224-9
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Sézary syndrome with elevated serum IgE and hypereosinophilia: role of dysregulated cytokine production (Borish et al). 1993;92:123-31
Shifts in interleukin-4 and interferon-γ production by T cells of patients with elevated serum IgE levels and the modulatory effects of these lymphokines on spontaneous IgE synthesis (Rousset et al). 1991;87:58-69
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Specific IgE and IgG serum antibodies to thiamine associated with anaphylactic reaction (Proebstle et al). 1995;95:1059-60 (Brief comm.)
Specific serum immunopatterns in clinical phases of allergic bronchopulmonary aspergillosis (Leser et al). 1992;90:589-99
Studies on the relationship between the level of specific IgE antibodies and the clinical expression of allergy. I. Definition of levels distinguishing patients with symptomatic from patients with asymptomatic allergy to common aeroallergens (Pastorello et al). 1995;96:580-7
Systemic reactions to the Samsum ant: an IgE-mediated hypersensitivity (Dib et al). 1995;96:465-72
Ultrastructural demonstration of specific IgG and IgE antibodies binding to *Aspergillus fumigatus* from patients with aspergillosis (Reijula et al). 1991;87:683-8

IgE, animal
Aerosolized antigen exposure without adjuvant causes increased IgE production and increased airway responsiveness in the mouse (Renz et al). 1992;89:1127-38
Human FcERI-IgG and humanized anti-IgE monoclonal antibody MaE11 block passive sensitization of human and rhesus monkey lung (Saban et al). 1994;94:836-43
Increased specific IgE production in lungs after the induction of acute stress in rats (Persoons et al). 1995;95:765-70
Influence of indomethacin and L-cysteine on histamine and peptidoleukotriene release from superfused tracheas taken from guinea pigs passively sensitized with IgG1 and IgE antibodies (Ro et al). 1991;87:1150-60
Lol p I–specific IgE and IgG synthesis by peripheral blood mononuclear cells from atopic subjects in SCID mice (Gagnon et al). 1995;95:1268-75
Particulate *Aspergillus fumigatus* antigens elicit a TH$_2$ response in BALB/c mice (Kurup et al). 1994;93:1013-20
Prevalence of specific IgE to the storage mite, *Aleuroglyphus ovatus* (Silton et al). 1991;88:595-603

IgE, child
Appearance of atopic disease in relation to serum IgE antibodies in children followed up from birth for 4 to 15 years (Sigurs et al). 1994;94:757-63
Childhood allergic bronchopulmonary aspergillosis (Caballero et al). 1995;95:1044-7 (Brief comm.)
Elevation of IgE in HIV-infected children and its correlation with the progression of disease (Viganó et al). 1995;95:627-32
Establishment of human IgE system in severe combined immunodeficient mice with peripheral blood mononuclear cells from asthmatic children (Chiang et al). 1995;95:69-76
The IgE and IgG subclass antibody response to foods in babies during the first year of life and their relationship to feeding regimen and the development of food allergy (Kemeny et al). 1991;87:920-9
IgE antibody to gelatin in children with immediate-type reactions to measles and mumps vaccines (Sakaguchi et al). 1995;96:563-5 (Brief comm.)
IgE hidden in immune complexes with anti-IgE autoantibodies in children with asthma (Ritter et al). 1991;88:793-801
Newly generated IgE antibodies to *Dermatophagoides pteronyssinus* in children are directed against components distinct from *Der p* I and *Der p* II (Calkhoven et al). 1991;88:265-71
Predictive values of cord blood IgE and cord blood lymphocyte responses to food antigens in allergic disorders during infancy (Kobayashi et al). 1994;94:907-16
Relationships of bronchial responsiveness assessed by methacholine to serum IgE, lung function, symptoms, and diagnoses in 11-year-old New Zealand children (Burrows et al). 1992;90:376-85
Residual antigenicity of hypoallergenic infant formulas and the occurrence of milk-specific IgE antibodies in patients with clinical allergy (van Beresteijn et al). 1995;96:365-74
Sensitization (IgE antibody) to food allergens in wheezing infants and children (Price et al). 1995;96:266-70 (Brief comm.)
Total serum IgE and eosinophil count in children with and without a history of asthma, wheezing, or atopy in an urban community in Indonesia (Kartasamita et al). 1994;94:981-8

IgE, diagnostic use
Aspergillus fumigatus: identification of 16, 18, and 45 kd antigens recognized by human IgG and IgE antibodies and murine monoclonal antibodies (Arruda et al). 1992;89:1166-76
Detection of mosquito saliva–specific IgE and IgG$_4$ antibodies by immunoblotting (Brummer-Korvenkontio et al). 1994;93:551-5
Diagnostic validation of specific IgE antibody concentrations, skin prick testing, and challenge tests in chemical workers with symptoms of sensitivity to different anhydrides (Baur and Czuppon). 1995;96:489-94
Immunoblot analysis of components of *Penicillium notatum* recognized by human IgE antibodies (Shen et al). 1991;88:802-7
Interpretation of skin tests to house dust mite and relationship to other allergy parameters in patients with asthma and chronic obstructive pulmonary disease (Brand et al). 1993;91:560-70
Receiver Operating Characterisic analysis: a useful method for a comparison of the clinical relevance of two in vitro IgE tests (de Blay et al). 1993;92:255-63
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The use of in vitro tests for IgE antibody in the specific diagnosis of IgE-mediated disorders and in the formulation of allergen immunotherapy (Executive Committee of the American Academy of Allergy and Immunology). 1992;90:263-7 (Position statement)

IgE, drug effects
Effects of amiloride and furosemide on histamine release from human leukocytes induced by anti-IgE antibody (Gorenberg et al). 1992;90:691-2 (Brief comm.)

IgE, immunology
- Detection of mosquito saliva–specific IgE and IgG_4 antibodies by immunoblotting (Brummer-Korvenkontio et al). 1994;93:551-5
- Detection of specific IgE-secreting cells with an enzyme-linked immunospot assay (Shinomiya et al). 1993;92:479-87
- IgE hidden in immune complexes with anti-IgE autoantibodies in children with asthma (Ritter et al). 1991;88:793-801
- IgE immune response to rubber proteins in adult patients with latex allergy (Alenius et al). 1994;93:859-63
- Immunoblot analysis of components of *Penicillium notatum* recognized by human IgE antibodies (Shen et al). 1991;88:802-7
- Immunologic studies of the mechanisms of occupational asthma caused by western red cedar (Frew et al). 1993;92:466-78
- Occupational allergy to pancreatic powder: characterization of IgE-binding antigens in pancreatic extract by immunoblotting (van Toorenenbergen et al). 1991;87:650-4
- Quantitative IgE- and IgG-subclass responses during and after long-term ragweed immunotherapy (Peng et al). 1992;89:519-29

IgE, secretion
- Allergen-specific IgE production of committed B cells from allergic patients in vitro (Steinberger et al). 1995;96:209-18
- Antigen presenting cell-independent cytokine and spontaneous in vitro IgE production in patients with atopic dermatitis: increased interferon-γ production and lack of effects of in vivo low-dose interferon-γ treatment (Simon et al). 1995;96:84-91

IgE receptors; *see* **Receptors, IgE**

IgG
- Abnormal response to a human B cell growth factor in patients with common variable immunodeficiency (CVI) (Ambrus et al). 1991;87:1138-49
- Anti-IgE autoantibodies mistaken for specific IgG (Jensen-Jarolim et al). 1992;89:31-43
- Hypersensitivity pneumonitis (extrinsic allergic alveolitis) induced by isocyanates (Baur). 1995;95:1004-10
- IgG2 and IgG4 subclass deficiency and Evan's syndrome in an adult patient (Villiger et al). 1992;90:693-4 (Brief comm.)
- Major differences in specificity among naturally occurring human IgG-subclass anti-IgE autoantibodies (Magnusson). 1995;95:1011-9
- Prevention of allergic sensitization to β-lactoglobulin with conjugates made of β-lactoglobulin coupled to isologous immunoglobulin G (Fritsché and Borel). 1994;93:778-86
- Regulation of IgE and IgG_4 responses by allergen specific T-cell clones to bee venom phospholipase A_2 in vitro (Carballido et al). 1994;93:758-67
- Serum IgE and IgG to formaldehyde-human serum albumin: lack of relation to gaseous formaldehyde exposure and symptoms (Dykewicz et al). 1991;87:48-57
- Specific IgE and IgG serum antibodies to thiamine associated with anaphylactic reaction (Proebstle et al). 1995;95:1059-60 (Brief comm.)
- Therapy for patients with recurrent infections and low serum IgG3 levels (Barlan et al). 1993;92:353-5 (Brief comm.)
- Toluene diisocyanate–induced reverse passive cutaneous anaphylaxis caused by IgG antibody (Hogan et al). 1995;95:913-5 (Brief comm.)
- Tyrosine phosphorylation and inositol phosphate production: Are early events in human eosinophil activation stimulated by immobilized secretory IgA and IgG? (Kita et al). 1994;94:1272-81 (Symposium)
- Ultrastructural demonstration of specific IgG and IgE antibodies binding to *Aspergillus fumigatus* from patients with aspergillosis (Reijula et al). 1991;87:683-8

IgG, animal
- Airway allergy to trimellitic anhydride in guinea pigs: different time courses of IgG_1 titer and airway responses to allergen challenge (Arakawa et al). 1993;92:425-34
- Human FcERI-IgG and humanized anti-IgE monoclonal antibody MaE11 block passive sensitization of human and rhesus monkey lung (Saban et al). 1994;94:836-43
- Influence of indomethacin and L-cysteine on histamine and peptidoleukotriene release from superfused tracheas taken from guinea pigs passively sensitized with IgG1 and IgE antibodies (Ro et al). 1991;87:1150-60
- *Lol p* I–specific IgE and IgG synthesis by peripheral blood mononuclear cells from atopic subjects in SCID mice (Gagnon et al). 1995;95:1268-75

IgG, child
- The IgE and IgG subclass antibody response to foods in babies during the first year of life and their relationship to feeding regimen and the development of food allergy (Kemeny et al). 1991;87:920-9

IgG, deficiency
- Immunoglobulin deficiency syndromes and therapy (Huston et al). 1991;87:1-17 (CME article)

IgG, diagnostic use
- *Aspergillus fumigatus*: identification of 16, 18, and 45 kd antigens recognized by human IgG and IgE antibodies and murine monoclonal antibodies (Arruda et al). 1992;89:1166-76
- Detection of mosquito saliva–specific IgE and IgG_4 antibodies by immunoblotting (Brummer-Korvenkontio et al). 1994;93:551-5
- Measurement of specific and nonspecific IgG_4 levels as diagnostic and prognostic tests for clinical allergy (AAAI). 1995;95:652-4 (Position statement)

IgG, drug effects
- Effect of steroids on immunoglobulin-induced eosinophil degranulation (Kita et al). 1991;87:70-7

IgG, immunology
- Clinical correlation of the venom-specific IgG antibody level during maintenance venom immunotherapy (Golden et al). 1992;90:386-93
- Detection of mosquito saliva–specific IgE and IgG_4 antibodies by immunoblotting (Brummer-Korvenkontio et al). 1994;93:551-5
- Quantitative IgE- and IgG-subclass responses during and after long-term ragweed immunotherapy (Peng et al). 1992;89:519-29
- Should routine measurements of serum venom-specific IgG be a standard of practice in patients receiving venom immunotherapy? (Reisman). 1992;90:282-4 (Editorial)
- Specific serum immunopatterns in clinical phases of allergic bronchopulmonary aspergillosis (Leser et al). 1992;90:589-99

IgM
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- Role of LFA-1/ICAM-1–dependent cell adhesion in CD40-mediated inhibition of anti-IgM antibody-induced B-cell death (Mayumi et al). 1995;96:1136-44 (Symposium)
- Schnitzler's syndrome: a broader clinical spectrum (Berdy and Bloch). 1991;87:849-54

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- Increased circulating levels of interleukin-5 in a case of steroid-resistant hypereosinophilic syndrome with ileal involvement (Fang et al). 1994;94:129-31 (Brief comm.)

Immediate hypersensitivity; *see* **Hypersensitivity, immediate**

Immune complex; *see* **Antigen-antibody complex**

Immune system
- Regulation of allergen-specific immune responses by CD4+ CD45R+ cells in patients with allergic contact dermatitis (Baxevanis et al). 1994;94:917-27
- The role of calcineurin in immune system responses (Kincaid). 1995;96:1170-7 (Symposium)

Immunity
- Immune function in cigarette smokers who quit smoking for 31 days (Meliska et al). 1995;95:901-10

Immunity, cellular
- Accelerated cell-mediated immune reactions in penicillin allergy (Warrington et al). 1993;92:626-8 (Brief comm.)
- Effect of prolonged use of inhaled steroids on the cellular immunity of children with asthma (Levy et al). 1995;95:806-12
- Effect of rhinovirus 39 infection on cellular immune parameters in allergic and nonallergic subjects (Skoner et al). 1993;92:732-43
- A follow-up study of pulmonary function tests, bronchoalveolar lavage cells, and humoral and cellular immunity in bird fancier's lung (Yoshizawa et al). 1995;96:122-9

Immunity, humoral; *see* **Antibodies**

Immunization
- Allergens in school dust. I. The amount of the major cat (*Fel d* I) and dog (*Can f* I) allergens in dust from Swedish schools is high enough to probably cause perennial symptoms in most children with asthma who are sensitized to cat and dog (Munir et al). 1993;91:1067-74
- Allergy to green algae *(Chlorella)* among children (Tiberg et al). 1995;96:257-9 (Brief comm.)
- Exposure to domestic animals and risk of immunologic sensitization in subjects with asthma (Desjardins et al). 1993;91:979-86
- Mite allergen exposure is a risk for the incidence of specific sensitization (Kuehr et al). 1994;94:44-52
- Prevention of allergic sensitization to β-lactoglobulin with conjugates made of β-lactoglobulin coupled to isologous immunoglobulin G (Fritsché and Borel). 1994;93:778-86
- Sensitization (IgE antibody) to food allergens in wheezing infants and children (Price et al). 1995;96:266-70 (Brief comm.)
- Sensitization to mite allergens is a risk factor for early and late onset of asthma and for persistence of asthmatic signs in children (Kuehr et al). 1995;95:655-62

Immunization, passive
- Intravenous immunoglobulin: A new therapeutic approach in steroid-dependent asthma? (Levinson and Wheatley). 1991;88:552-4 (Editorial)
- An open-label study of high-dose intravenous immunoglobulin in severe childhood asthma (Mazer and Gelfand). 1991;87:976-83
- Treatment of Churg-Strauss syndrome with high-dose intravenous immunoglobulin (Hamilos and Christensen). 1991;88:823-4 (Brief comm.)

Immunoassay
- Laboratory evaluation of a commercial immunoassay for fire ant allergen–specific IgE antibodies (Feger et al). 1995;96:182-7

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- Allergy to latex, avocado pear, and banana: evidence for a 30 kd antigen in immunoblotting (Lavaud et al). 1995;95:557-64
- Analysis of rat urine proteins and allergens by sodium dodecyl sulfate–polyacrylamide gel electrophoresis and immunoblotting (Gordon et al). 1993;92:298-305
- Common epitopes of birch pollen and apples—studies by Western and Northern blot (Ebner et al). 1991;88:588-94
- Detection of mosquito saliva–specific IgE and IgG$_4$ antibodies by immunoblotting (Brummer-Korvenkontio et al). 1994;93:551-5
- IgE immune response to rubber proteins in adult patients with latex allergy (Alenius et al). 1994;93:859-63
- Immunoblot analysis of components of *Penicillium notatum* recognized by human IgE antibodies (Shen et al). 1991;88:802-7
- Occupational allergy to pancreatic powder: characterization of IgE-binding antigens in pancreatic extract by immunoblotting (van Toorenenbergen et al). 1991;87:650-4
- Recombinant allergens for immunoblot diagnosis of tree-pollen allergy (Valenta et al). 1991;88:889-94
- Serum anti-*Aspergillus fumigatus* antibodies by immunoblot and ELISA in cystic fibrosis with allergic bronchopulmonary aspergillosis (Knutsen et al). 1994;93:926-31
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- Immunochemical analysis of sulfonamide drug allergy: identification of sulfamethoxazole-substituted human serum proteins (Meekins et al). 1994;94:1017-24
- Immunochemical characterization of the distinct monocyte cyclic AMP-phosphodiesterase from patients with atopic dermatitis (Chan et al). 1993;91:1179-88

Immunocytochemistry; *see* **Immunohistochemistry**

Immunodeficiency
- Immunodeficiency with hyperimmunoglobulinemia M in two female patients is not associated with abnormalities of CD40 or CD40 ligand expression (Oliva et al). 1995;96:403-10
- Immunoglobulin deficiency syndromes and therapy (Huston et al). 1991;87:1-17 (CME article)
- Rapid infusion of Sandoglobulin in patients with primary humoral immunodeficiency (Schiff et al). 1991;88:61-7
- Retrospective analysis of the incidence of pulmonary disease in hypogammaglobulinemia (Sweinberg et al). 1991;88:96-104
- The role of the immunologist in sinus disease (Polmar). 1992;90:511-5 (Symposium)
- Soluble Fc$_\varepsilon$R II levels in normal children and patients with immunodeficiency diseases (Jyonouchi et al). 1991;87:965-70

Immunodeficiency, common variable; *see* **Common variable immunodeficiency**

Immunodeficiency, severe combined; *see* **Severe combined immunodeficiency**

Immunodominant epitope
- Epitope specificity and immunoaffinity purification of the major peanut allergen, *Ara h* I (Burks et al). 1994;93:743-50

Immunoelectrophoresis
- Banana allergy in patients with immediate-type hypersensitivity to natural rubber latex: characterization of cross-reacting antibodies and allergens (Mäkinen-Kiljunen). 1994;93:990-6
- Characterization of latex antigens and allergens in surgical gloves and natural rubber by immunoelectrophoretic methods (Mäkinen-Kiljunen et al). 1992;90:230-5

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- Allergenicity of *Euroglyphus maynei* and its cross-reactivity with *Dermatophagoides* species (Arlian et al). 1993;91:1051-8
- Allergenicity of the mite, *Blomia tropicalis* (Arlian et al). 1993;91:1042-50

Immunoenzyme techniques
- Environmental exposure to cockroach allergens: analysis with monoclonal antibody–based enzyme immunoassays (Pollart et al). 1991;87:505-10
- A novel immunoenzymatic method for the determination of global isocyanate antibodies: comparison with ELISA (Nany et al). 1992;89:781-2 (Brief comm.)

Immunogenetics
- An immunogenetic analysis of T-cell reactive regions on the major allergen from the house dust mite, *Der p* I, with recombinant truncated fragments (O'Brien et al). 1994;93:628-34

Immunoglobulin E; *see* **IgE**

Immunoglobulin G; *see* **IgG**

Immunoglobulin idiotypes
- Suppression of immune response to *Lol p* I by administration of idiotype (Boutin and Hébert). 1995;95:751-8

Immunoglobulin isotypes
- Isotype-specific regulation of human lymphocyte production of immunoglobulins by sustained exposure to vasoactive intestinal peptide (Hassner et al). 1993;92:891-901
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- Regulation of IgE synthesis in humans: a tale of two signals (Vercelli and Geha). 1991;88:285-95 (CME article)
- Release of granule proteins by eosinophils from allergic and nonallergic patients with eosinophilia on immunoglobulin-dependent activation (Tomassini et al). 1991;88:365-75

Immunoglobulin therapy; *see* **Immunization, passive**

Immunoglobulins
- Albumin and immunoglobulin levels in nasal secretions of patients with nasal polyps treated with endoscopic sinus surgery and topical corticosteroids (Biewenga et al). 1995;96:334-40
- Cells and mediators involved in immunoglobulin synthesis by human circulating mononuclear cells. IV. B cells synthesize but do not

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An ELISA spot assay for quantitation of human immunoglobulin-secreting cells (Mazer et al). 1991;88:235-43
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Possible dual role of anti-idiotypic antibodies in combined passive and active immunotherapy in honeybee sting allergy (Boutin et al). 1994;93:1039-46
The relationship between late asthmatic responses and antigen-specific immunoglobulin (Waserman et al). 1992;90:661-9
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Immunoglobulins, Fc
Physical association of Fc receptor γ chain homodimer with IgA receptor (Saito et al). 1995;96:1152-60 (Symposium)
Immunoglobulins, surface
Positive and negative signals transduced through surface immunoglobulins in human B cells (Mayumi et al). 1994;94:612-9 (Symposium)
Immunogold techniques; *see* **Immunohistochemistry**
Immunohistochemistry
Detection of interleukin-5 messenger RNA and interleukin-5 protein in bronchial biopsies from asthma by nonradioactive in situ hybridization and immunohistochemistry (Fukuda et al). 1994;94:584-93 (Symposium)
Eosinophils in nasal polyps and nasal mucosa: an immunohistochemical study (Stoop et al). 1993;91:616-22
Immunocytochemical detection of granulocyte-macrophage colony-stimulating factor and eosinophil cationic protein in sputum cells (Girgis-Gabardo et al). 1994;93:945-7 (Brief comm.)
Mast cell number and phenotype in chronic idiopathic urticaria (Smith et al). 1995;96:360-4
Quantification of resident inflammatory cells in the human nasal mucosa (Igarashi et al). 1993;91:1082-93
Ultrastructural immunogold localization of tumor necrosis factor-α to the cytoplasmic granules of rat peritoneal mast cells with rapid microwave fixation (Beil et al). 1994;94:531-6
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Immunology; *see* **Allergy and immunology**
Immunomodulators; *see* **Adjuvants, immunologic**
Immunosuppression
Immunosuppression in the treatment of disease (Dickler and Albright). 1994;93:669-76 (Symposium)
Immunosuppressive agents
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Bee venom anti-idiotypic antibody is associated with protection in beekeepers and bee sting–sensitive patients receiving immunotherapy against allergic reactions (Khan et al). 1991;88:199-208
Clinical and immunologic follow-up of patients who stop venom immunotherapy (Keating et al). 1991;88:339-48
Clinical correlation of the venom-specific IgG antibody level during maintenance venom immunotherapy (Golden et al). 1992;90:386-93
A controlled dose-response study of immunotherapy with standardized, partially purified extract of house dust mite: clinical efficacy and side effects (Haugaard et al). 1993;91:709-22
Deliberate bee sting challenge of patients receiving maintenance venom immunotherapy at 3-month intervals (Goldberg et al). 1994;93:997-1001
Determinants of patient compliance with allergen immunotherapy (Cohn and Pizzi). 1993;91:734-7
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A double-blind, placebo-controlled evaluation of sublingual immunotherapy with standardized cat extract (Nelson et al). 1993;92:229-36
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Effects of immunotherapy on the early, late, and rechallenge nasal reaction to provocation with allergen: changes in inflammatory mediators and cells (Iliopoulos et al). 1991;87:855-66
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How the current understanding of the pathophysiology of asthma influences our approach to therapy (Kaliner). 1993;92:144-7 (Symposium)
Hypersensitivity vasculitis occurring in a patient receiving immunotherapy (Taylor). 1991;87:889-90 (Brief rep.)
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Imported fire ant immunotherapy: effectiveness of whole body extracts (Freeman et al). 1992;90:210-5
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Local immunotherapy with *Dermatophagoides* extract in asthma (Crimi et al). 1991;87:721-8
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Long-term follow-up of patients treated with a three-year course of cat or dog immunotherapy (Hedlin et al). 1995;96:879-85
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Monoclonal antibody–standardized cat extract immunotherapy: risk-benefit effects from a double-blind placebo study (Alvarez-Cuesta et al). 1994;93:556-7
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Possible dual role of anti-idiotypic antibodies in combined passive and active immunotherapy in honeybee sting allergy (Boutin et al). 1994;93:1039-46

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Should routine measurements of serum venom-specific IgG be a standard of practice in patients receiving venom immunotherapy? (Reisman). 1992;90:282-4 (Editorial)

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Systemic reactions from allergen immunotherapy (Stewart and Lockey). 1992;90:567-78 (Editorial)

Systemic reactions occurring during immunotherapy with standardized pollen extracts (Hejjaoui et al). 1992;89:925-33

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Protective activity of inhaled nonsteroidal antiinflammatory drugs on bronchial responsiveness to ultrasonically nebulized water (Blanco et al). 1992;90:833-9

Indoor air pollution; *see* **Air pollution, indoor**

Indoor allergen levels; *see* **Air pollution, indoor**

Indoor allergens; *see* **Allergens**

Infant

Association of interleukin-2 and interferon-γ production by blood mononuclear cells in infancy with parental allergy skin tests and with subsequent development of atopy (Martinez et al). 1995;96:652-60

Development of immune response to cow's milk proteins in infants receiving cow's milk or hydrolyzed formula (Vaarala et al). 1995;96:917-23

Development of nasal basophilic cells and nasal eosinophils from age 4 months through 4 years in children of atopic parents (Zeiger and Heller). 1993;91:723-34

The diagnosis of sinusitis in infants and children: x-ray, computed tomography, and magnetic resonance imaging (Diament). 1992;90:442-4 (Symposium)

Effect of environmental factors on the development of allergic disorders in infancy (Arshad and Hide). 1992;90:235-41

Food protein–induced enterocolitis to casein hydrolysate formulas (Kelso and Sampson). 1993;92:909-10 (Brief comm.)

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Peripheral blood eosinophilia in infants at 3 months of age is associated with subsequent development of atopic disease in early childhood (Borres et al). 1995;95:694-8

Predictive values of cord blood IgE and cord blood lymphocyte responses to food antigens in allergic disorders during infancy (Kobayashi et al). 1994;94:907-16

Relationship between oral challenges with previously uningested egg and egg-specific IgE antibodies and skin prick tests in infants with food allergy (Caffarelli et al). 1995;95:1215-20

X-linked agammaglobulinemia presenting as transient hypogammaglobulinemia of infancy (Kornfeld et al). 1995;95:915-7 (Brief comm.)

Infant, newborn

Maternal smoking does not influence cord serum IgE or IgD concentrations (Ownby et al). 1991;88:555-60

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Infant formulas; *see* **Food, formulated**

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Leukocyte responses to experimental infection with human rhinovirus (Thomas et al). 1994;94:1255-62 (Symposium)

Primary Sjögren's syndrome associated with recurrent sinopulmonary infections and bronchiectasis (Robinson and Meyer). 1994;94:263-4 (Brief comm.)

Therapy for patients with recurrent infections and low serum IgG3 levels (Barlan et al). 1993;92:353-5 (Brief comm.)

Inflammation

Analysis of cellular and biochemical constituents of induced sputum after allergen challenge: a method for studying allergic airway inflammation (Fahy et al). 1994;93:1031-9

Analysis of induced sputum to examine the effects of prednisone on airway inflammation in asthmatic subjects (Claman et al). 1994;94:861-9

Assessment of inflammation in noninfectious chronic maxillary sinusitis (Demoly et al). 1994;94:95-108

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Characterization of allergen-induced bronchial hyperresponsiveness and airway inflammation in actively sensitized Brown-Norway rats (Elwood et al). 1991;88:951-60

A comparative study of the effects of an inhaled corticosteroid, budesonide, and a β_2-agonist, terbutaline, on airway inflammation in newly diagnosed asthma: a randomized, double-blind, parallel-group controlled trial (Laitinen et al). 1992;90:32-42

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  Effect of a topical corticosteroid on airway hyperresponsiveness and eosinophilic inflammation induced by trimellitic anhydride exposure in sensitized guinea pigs (Hayes et al). 1993;92:450-6
  Effect of interleukin-1β on airway hyperresponsiveness and inflammation in sensitized and nonsensitized Brown-Norway rats (Tsukagoshi et al). 1994;93:464-9
  Effects of neuropeptides on neutrophil migration through noncellular and endothelial barriers (Carolan and Casale). 1993;92:589-98
  Eosinophil adhesion in allergic inflammation (Wardlaw et al). 1994;94:1163-71 (Symposium)
  Eosinophilic and neutrophilic inflammation in asthma, chronic bronchitis, and chronic obstructive pulmonary disease (Lacoste et al). 1993;92:537-48
  Eosinophilic inflammation is associated with elevation of interleukin-5 in the airways of patients with spontaneous symptomatic asthma (Sur et al). 1995;96:661-8
  Eosinophils and basophils in allergic airway inflammation (Busse et al). 1994;94:1251-4 (Symposium)
  Fluticasone propionate aerosol for the treatment of adults with mild to moderate asthma (Chervinsky et al). 1994;94:676-83
  Indirect evidence of nasal inflammation assessed by titration of inflammatory mediators and enumeration of cells in nasal secretions of patients with chronic rhinitis (Knani et al). 1992;90:880-9
  Influence of natural antigenic exposure on expiratory flows, methacholine responsiveness, and airway inflammation in mild allergic asthma (Boulet et al). 1993;91:883-93
  Lipid bodies: intracellular sites for eicosanoid formation (Weller and Dvorak). 1994;94:1151-6 (Symposium)
  Minimal persistent inflammation is present at mucosal level in patients with asymptomatic rhinitis and mite allergy (Ciprandi et al). 1995;96:971-9
  Pathology of asthma (Hogg). 1993;92:1-5 (Postgrad. course)
  Prominent neutrophilic inflammation in sputum from subjects with asthma exacerbation (Fahy et al). 1995;95:843-52
  Relationships among allergen-induced early and late phase airway obstructions, bronchial hyperreactivity, and inflammation in conscious, unrestrained guinea pigs (Santing et al). 1994;93:1021-30
  Steroid-resistant asthma (Cypcar and Busse). 1993;92:362-72 (Postgrad. course)
  Therapy for airway inflammation in asthma (Cockcroft). 1991;87:914-9 (Postgrad. course)
  Whole blood chemiluminescence as a systemic inflammatory parameter in asthma (Nordman and Nyberg). 1994;94:853-60
Inflammatory cell count; *see* **Cell count**
Inflammatory cells; *see* **Cells**
Infusions, intravenous
  Anaphylaxis to latex in intravenous fluids (Schwartz and Zurowski). 1993;92:358-9 (Brief comm.)
  Drug eruptions and isotypic antibody responses to streptokinase after infusions of anisoylated plasminogen-streptokinase complex (APSAC, anistreplase) (Dykewicz et al). 1995;95:1020-8
  High-dose intravenous γ-globulin treatment for hyperimmunoglobulinemia E syndrome (Kimata). 1995;95:771-4
  Vancomycin hypersensitivity: synergism with narcotics and "desensitization" by a rapid continuous intravenous protocol (Wong et al). 1994;94:189-94
Inhalation administration; *see* **Administration, inhalation**
Inhalation challenge; *see* **Bronchial provocation tests**
Inhalation devices; *see* **Nebulizers and vaporizers**
Inhalation provocation tests; *see* **Bronchial provocation tests**
Inhalers; *see* **Nebulizers and vaporizers**
Injections
  Oral versus repository corticosteroid therapy after hospitalization for treatment of asthma (Green et al). 1995;95:15-22
Injections, subcutaneous
  The use of epinephrine in the treatment of anaphylaxis (AAAI Board of Directors). 1994;94:666-8 (Position statement)
Inner-city asthma; *see* **Asthma** ***entries***
Inositol phosphates
  Increased contraction and inositol phosphate formation of tracheal smooth muscle from hyperresponsive guinea pigs (Salari et al). 1992;90:918-26
  Tyrosine phosphorylation and inositol phosphate production: Are early events in human eosinophil activation stimulated by immobilized secretory IgA and IgG? (Kita et al). 1994;94:1272-81 (Symposium)
Inositol 1,4,5-triphosphate
  Platelet-activating factor stimulates a rapid accumulation of inositol (1,4,5) triphosphate in guinea pig eosinophils: relationship to calcium mobilization and degranulation (Kroegel et al). 1991;88:114-24
Insect bites and stings; *see* **Bites and stings**
Insecticides
  Caffeine, a naturally occurring acaricide (Russell et al). 1991;87:107-10
Insects
  Duration of venom immunotherapy: relationship to the severity of symptoms of initial insect sting anaphylaxis (Reisman). 1993;92:831-6
Instructions to authors
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Inhibition of monocyte leukotriene B_4 production after aspirin desensitization (Juergens et al). 1995;96:148-56

Single oral dose of prednisone decreases leukotriene B_4 production by alveolar macrophages from patients with nocturnal asthma but not control subjects: relationship to changes in cellular influx and FEV_1 (Wenzel et al). 1994;94:870-81

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The effect of inhalation of the leukotriene receptor antagonist, SK&F 104353, on leukotriene C_4- and leukotriene E_4-induced bronchoconstriction in subjects with asthma (Christie et al). 1991;88:193-8

Inhibition of eosinophil density change and leukotriene C_4 generation by nedocromil sodium (Sedgwick et al). 1992;90:202-9

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Evaluation of the new ophthalmic antihistamine, 0.05% levocabastine, in the clinical allergen challenge model of allergic conjunctivitis (Abelson et al). 1994;94:458-64

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13-Hydroxy-linoleic acid induces airway hyperresponsiveness to histamine and methacholine in guinea pigs in vivo (Henricks et al). 1995;96:36-43

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Lipid bodies: intracellular sites for eicosanoid formation (Weller and Dvorak). 1994;94:1151-6 (Symposium)

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Reduction of FK-506 requirements by combination with polyethylene glycol superoxide dismutase in orthotopic rat liver transplantation (Rao et al). 1995;95:1276-81
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***Lol p* I**; *see* **Allergens**
Lolium
Identification of anti-idiotypic antibodies in the sera of ryegrass-allergic and nonallergic individuals (Valacer et al). 1991;88:349-55
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Loratadine
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Inhibition of IgE- and non-IgE-mediated histamine release from human basophil leukocytes in vitro by a histamine H_1-antagonist, desethoxycarbonyl-loratadine (Kleine-Tebbe et al). 1994;93:494-500
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Low-osmolality radiographic contrast media; *see* **Contrast media**
L-Tryptophan; *see* **Tryptophan**
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Luminescence
β-Adrenergic regulation of the eosinophil respiratory burst as detected by lucigenin-dependent luminescence (Hadjokas et al). 1995;95:735-41
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Human FcERI-IgG and humanized anti-IgE monoclonal antibody MaE11 block passive sensitization of human and rhesus monkey lung (Saban et al). 1994;94:836-43
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Atopic children with cystic fibrosis have increased urinary leukotriene E_4 concentrations and more severe pulmonary disease (Greally et al). 1994;93:100-7
Cytokine control of eosinophils in pulmonary diseases (Walker et al). 1994;94:1262-71 (Symposium)
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Skin test reactivity in patients suffering from lung and breast cancer (Bousquet et al). 1991;87:1066-72
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Localization of inhaled trimellitic anhydride to lung with a respiratory lymph node antibody secreting cell response (Zeiss et al). 1992;90:944-52
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Cervical lymphadenopathy as a sign of atopy in childhood (Ballin et al). 1995;96:264-5 (Brief comm.)
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Follicular thyroid cells of autoimmune thyroiditis may coexpress ICAM-1 (CD54) and its natural ligand LFA-1 (CD11a/CD18) (Bagnasco et al). 1995;95:1036-43
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Reexamination of the blood lymphocyte transformation test in the diagnosis of chronic beryllium disease (Mroz et al). 1991;88:54-60
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Lysine acetylsalicylate
Steroid-sparing effect of inhaled lysine acetylsalicylate and furosemide in high-dose beclomethasone–dependent asthma (Bianco et al). 1995;95:937-43

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Lysophosphatidylcholine induces mast cell secretion and protein kinase C activation (Marquardt and Walker). 1991;88:721-30

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Loratadine reduces allergen-induced mucosal output of α_2-macroglobulin and tryptase in allergic rhinitis (Greiff et al). 1995;96:97-103

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Airway macrophages from patients with asthma do not proliferate (Chanez et al). 1993;92:869-77

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Airway macrophages from patients with asthma do not proliferate (Chanez et al). 1993;92:869-77
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- Anaphylaxis to measles, mumps, and rubella vaccine mediated by IgE to gelatin (Kelso et al). 1993;91:867-72
- IgE antibody to gelatin in children with immediate-type reactions to measles and mumps vaccines (Sakaguchi et al). 1995;96:563-5 (Brief comm.)

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Messenger RNA; *see* **RNA, messenger**

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- Mechanisms of neutrophil damage to human alveolar extracellular matrix: the role of serine and metalloproteases (Palmgren et al). 1992;89:905-15

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Metered dose; *see* **Dosage forms**

Metered-dose inhalers; *see* **Nebulizers and vaporizers**

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- Beclomethasone given after the early asthmatic response inhibits the late response and the increased methacholine responsiveness and cromolyn does not (Cockcroft et al). 1993;91:1163-8
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Microvascular permeability; *see* **Capillary permeability**

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Mosquito saliva; *see* **Saliva**

Mosquitoes

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Mountain environment; *see* **Environment**

Mouse allergen; *see* **Allergens**

Mouth, drug effects

Metronidazole hypersensitivity and oral desensitization (Kurohara et al). 1991;88:279-80 (Brief comm.)

mRNA; *see* **RNA, messenger**

Mucocutaneous lymph node syndrome

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Mucosa, nasal; *see* **Nasal mucosa**

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Multi-Test device; *see* **Equipment and supplies**

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IgE antibody to gelatin in children with immediate-type reactions to measles and mumps vaccines (Sakaguchi et al). 1995;96:563-5 (Brief comm.)

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Mycelium; *see* **Fungi**

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Nasal allergy; *see* **Rhinitis, allergic**

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Nasal candidiasis; *see* **Candidiasis**

Nasal cavity; *see also* **Nose**

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Immunoglobulin concentrations in nasal secretions differ between patients with an IgE-mediated rhinopathy and a non-IgE–mediated rhinopathy (Swart et al). 1991;88:612-9

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The effect of BAY u 3405, a thromboxane receptor antagonist, on prostaglandin D_2-induced nasal blockage (Johnston et al). 1993;91:903-9

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The human nasal response to capsaicin (Philip et al). 1994;94:1035-45
Immunotherapy decreases antigen-induced eosinophil cell migration into the nasal cavity (Furin et al). 1991;88:27-32
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Indirect evidence of nasal inflammation assessed by titration of inflammatory mediators and enumeration of cells in nasal secretions of patients with chronic rhinitis (Knani et al). 1992;90:880-9
Influence of oral calcium medication on nasal resistance in the nasal allergen provocation test (Bachert et al). 1993;91:599-604
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Inhibition of different dosages of oxatomide or placebo on skin prick test and nasal allergen provocation (Piacentini et al). 1991;88:218-25
Interleukin-6 and interleukin-1α production is associated with antigen-induced late nasal response (Gosset et al). 1993;92:878-90
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Nasal spray; *see* **Administration, intranasal**
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Nebulized water; *see* **Water**
Nebulizers and vaporizers
Choosing the metered-dose inhaler spacer or holding chamber that matches the patient's need: evidence that the specific drug being delivered is an important consideration (Ahrens et al). 1995;96:288-94 (Seminar)
Clinical equivalence of a novel non-chlorofluorocarbon-containing salbutamol sulfate metered-dose inhaler and a conventional chlorofluorocarbon inhaler in patients with asthma (Dockhorn et al). 1995;96:50-6
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Improper patient techniques with metered dose inhalers: clinical consequences and solutions to misuse (McFadden). 1995;96:278-83 (Seminar)
Physician-targeted program on inhaled therapy for childhood asthma (Amirav et al). 1995;95:818-23
Theophylline attenuation of airway responses to allergen: comparison with cromolyn metered-dose inhaler (Hendeles et al). 1995;95:505-14
What do pediatricians in training know about the correct use of inhalers and spacer devices? (Amirav et al). 1994;94:669-75
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Inhibition by nedocromil sodium of recombinant human interleukin-5–induced lung hyperresponsiveness to platelet-activating factor in actively sensitized guinea pigs (Pretolani et al). 1993;91:809-16
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The preventive effect of nedocromil or furosemide alone or in combination on exercise-induced asthma in children (Novembre et al). 1994;94:201-6
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Netherton's syndrome; *see* **Abnormalities**

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Neurokinin A; *see* **Substance K**

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Comparison of latex hypersensitivity among patients with neurologic defects (Konz et al). 1995;95:950-4

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Cerebral cortical atrophy and central nervous system (CNS) symptoms in a steroid-treated child with asthma (Spiegel et al). 1992;89:918-9 (Brief comm.)

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Neuropeptide Y, a putative cotransmitter in noradrenergic neurons, induces mast cell degranulation but not prostaglandin D_2 release (Arzubiaga et al). 1991;87:88-93

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Prominent neutrophilic inflammation in sputum from subjects with asthma exacerbation (Fahy et al). 1995;95:843-52

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- Connective tissue–activating peptide-III and its derivative, neutrophil-activating peptide-2, release histamine from human basophils (Reddigari et al). 1992;89:666-72
- Distinguishing features of basophil and neutrophil activation by major basic protein (Thomas et al). 1994;94:1171-6 (Symposium)
- Effects of neuropeptides on neutrophil migration through noncellular and endothelial barriers (Carolan and Casale). 1993;92:589-98
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- Inhibition of neutrophil functions by human immunoglobulin E (Al-Mohanna et al). 1993;92:757-66
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- Release of eosinophil granule proteins during IgE-mediated allergic skin reactions (Zweiman et al). 1991;87:984-92
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- Effect of six-hour exposure to nitrogen dioxide on early-phase nasal response to allergen challenge in patients with a history of seasonal allergic rhinitis (Wang et al). 1995;96:669-76

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Noberastine
- Clinical evaluation of the efficacy and safety of noberastine, a new H_1 antagonist, in seasonal allergic rhinitis: a placebo-controlled, dose-response study (Knight et al). 1991;88:926-34

***Nocardia* infections**
- Fatal pulmonary nocardiosis in a patient with chronic mucocutaneous candidiasis (Seggev). 1994;94:259-62

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- Catecholamine responses to histamine infusion in man (Schellenberg et al). 1991;87:499-504

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- Anatomic and physiologic considerations in sinusitis (Wagenmann and Naclerio). 1992;90:419-23 (Symposium)
- Diagnosis of sinusitis in adults: history, physical examination, nasal cytology, echo, and rhinoscope (Druce). 1992;90:436-41 (Symposium)
- In vivo detection of a novel macrophage-derived protein involved in the regulation of nasal mucus-like glycoconjugate secretion (Sperber et al). 1993;92:581-8
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- Release of chemical mediators and inflammatory cell influx during early allergic reaction in the nose: effect of furosemide (Prat et al). 1993;92:248-54

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- Albumin and immunoglobulin levels in nasal secretions of patients with nasal polyps treated with endoscopic sinus surgery and topical corticosteroids (Biewenga et al). 1995;96:334-40
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- A double-blind, placebo-controlled study of the safety and efficacy of ipratropium bromide nasal spray versus placebo in patients with the common cold (Dockhorn et al). 1992;90:1076-82 (Symposium)
- How and why the nose runs (Raphael et al). 1991;87:457-67 (Postgrad. course)
- In vivo detection of a novel macrophage-derived protein involved in the regulation of nasal mucus-like glycoconjugate secretion (Sperber et al). 1993;92:581-8
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- Nasal secretions in response to acetylsalicylic acid (Kowalski et al). 1993;91:580-98
- A pharmacologic continuum in the treatment of rhinorrhea: the clinician as economist (Meltzer et al). 1995;95:1147-52
- Rhinorrhea related to antipsychotic drug therapy (Orfan and Kolski). 1993;91:681-2 (Brief comm.)
- Substance P, calcitonin gene-related peptide, and vasoactive intestinal peptide increase in nasal secretions after allergen challenge in atopic patients (Mosimann et al). 1993;92:95-104

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- Regulation of the expression of IL-2 and IL-5 genes and the role of proteins related to nuclear factor of activated T cells (Tsuruta et al). 1995;96:1126-35 (Symposium)
- Signals and nuclear factors that regulate the expression of interleukin-4 and interleukin-5 genes in helper T cells (Lee et al). 1994;94:594-604 (Symposium)

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- Heterogeneity of phenotype in two siblings with adenosine deaminase deficiency (Umetsu et al). 1994;93:543-50

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- Homology of the major birch-pollen allergen, *Bet v* I, with the major pollen allergens of alder, hazel, and hornbeam at the nucleic acid level as determined by cross-hybridization (Valenta et al). 1991;87:677-82

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Nurses
- Prevalence of latex allergy in operating room nurses (Lagier et al). 1992;90:319-22

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- Elevated IgE level in relationship to nutritional status and immune parameters in early human immunodeficiency virus–1 disease (Shor-Posner et al). 1995;95:886-92

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Occupational asthma; *see* **Asthma, etiology**

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- Affinity purification of the major bovine allergen by a novel monoclonal antibody (Ylönen et al). 1994;93:851-8
- Airway allergy to trimellitic anhydride in guinea pigs: different time courses of IgG_1 titer and airway responses to allergen challenge (Arakawa et al). 1993;92:425-34
- Allergenic exposure, IgE-mediated sensitization, and related symptoms in lawn cutters (Gautrin et al). 1994;93:437-45

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Building-related factors to consider in indoor air quality evaluations (Spaul). 1994;94:385-9 (Symposium)
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Involvement of immunologic mechanisms in a guinea pig model of Western red cedar asthma (Salari et al). 1994;93:877-84
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  Reassessment of the temporal patterns of bronchial obstruction after exposure to occupational sensitizing agents (Perrin et al). 1991;87:630-9
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  Respiratory allergy to *Aspergillus*-derived enzymes in bakers' asthma (Quirce et al). 1992;90:970-8
  Rhinitis and asthma caused by occupational exposure to carob bean flour (van der Brempt et al). 1992;90:1008-10 (Brief comm.)
  Rhizopus-induced hypersensitivity pneumonitis in a tractor driver (O'Connell et al). 1995;95:779-81 (Brief comm.)
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  Volatile organic compounds and indoor air (Hodgson et al). 1994;94:296-303 (Symposium)
  Work-related late asthmatic response induced by latex allergy (Brugnami et al). 1995;96:457-64
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  Suffocating odor and asthma after Acarosan-powder carpet treatment (Wolf). 1992;89:637-8 (Brief comm.)
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  Cold-pressed peanut oil may contain peanut allergen (Hoffman and Collins-Williams). 1994;93:801-2 (Brief comm.)
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  An analysis with sequence-specific oligonucleotide probes of the association between aspirin-induced asthma and antigens of the HLA system (Lympany et al). 1993;92:114-23
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  The Academy reorganizes on its fiftieth anniversary (Lockey). 1993;91:3-6 (Editorial)
  Reorganization of the American Academy of Allergy and Immunology—1987 (Reed). 1993;91:2 (Editorial)
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  Noncardiogenic pulmonary edema induced by nonionic low-osmolality radiographic contrast media (Goldsmith and Steinberg). 1995;96:698-9 (Brief comm.)
  Stimulation of dispersed nasal polyp cells by hyperosmolar solutions (Souques et al). 1995;96:980-5
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  Aerosolized antigen exposure without adjuvant causes increased IgE production and increased airway responsiveness in the mouse (Renz et al). 1992;89:1127-38
  Allergenicity and antigenicity of chicken egg ovomucoid (*Gal d* III) compared with ovalbumin (*Gal d* I) in children with egg allergy and in mice (Bernhisel-Broadbent et al). 1994;93:1047-59
  Antagonism of airway reactivity induced by ovalbumin antigen in guinea pigs by 5-amino-4-imidazolecarboxamide riboside (Bergren et al). 1991;88:604-12
  Characterization of allergen-induced bronchial hyperresponsiveness and airway inflammation in actively sensitized Brown-Norway rats (Elwood et al). 1991;88:951-60
  The IgE and IgG subclass antibody response to foods in babies during the first year of life and their relationship to feeding regimen and the development of food allergy (Kemeny et al). 1991;87:920-9
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  Inhibition of different dosages of oxatomide or placebo on skin prick test and nasal allergen provocation (Piacentini et al). 1991;88:218-25
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  Episodic eosinophilia-myalgia–like syndrome in a patient without L-tryptophan use: association with eosinophil activation and increased serum levels of granulocyte-macrophage colony–stimulating factor (Bochner et al). 1991;88:629-36
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The use of murine polyclonal anti-idiotypic antibodies as surrogate allergens in the diagnosis of *Parthenium* hypersensitivity (Sriramarao et al). 1993;92:567-80
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- Treatment of peanut allergy with rush immunotherapy (Oppenheimer et al). 1992;90:256-62

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- Tryptase and histamine release during aspirin-induced respiratory reactions (Bosso et al). 1991;88:830-7

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- Epitope mapping with peptides of *Chi t* I component III and immunomodulation of the *Chi t* immune response (Liebers et al). 1993;92:334-9

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- Influence of indomethacin and L-cysteine on histamine and peptidoleukotriene release from superfused tracheas taken from guinea pigs passively sensitized with IgG1 and IgE antibodies (Ro et al). 1991;87:1150-60

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Peritoneal dialysis, continuing ambulatory
- Human eosinophils are more toxic than neutrophils in antibody-independent killing (Roberts et al). 1991;87:1105-15

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- Ultrastructural immunogold localization of tumor necrosis factor-α to the cytoplasmic granules of rat peritoneal mast cells with rapid microwave fixation (Beil et al). 1994;94:531-6

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- Modulation by interleukin-4 of cytokine release from mononuclear phagocytes in asthma (Chanez et al). 1994;94:997-1005

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- Acquisition of lymphokine-producing phenotype by CD4+ T cells (Seder). 1994;94:1195-202 (Symposium)
- Heterogeneity of phenotype in two siblings with adenosine deaminase deficiency (Umetsu et al). 1994;93:543-50
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- Excretion of platelet activating factor–acetylhydrolase and phospholipase A_2 into nasal fluids after allergenic challenge: possible role in the regulation of platelet activating factor release (Touqui et al). 1994;94:109-19
- Human monoclonal or polyclonal antibodies recognize predominantly discontinuous epitopes on bee venom phospholipase A_2 (Schneider et al). 1994;94:61-70
- Mapping human T cell epitopes on phospholipase A_2: the major bee-venom allergen (Dhillon et al). 1992;90:42-51
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- Type I skin reactivity to native and recombinant phospholipase A_2 from honeybee venom is similar (Müller et al). 1995;96:395-402

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- A comparative study of the effects of 1-acyl-2-acetyl-*sn*-glycero-3-phosphocholine and platelet activating factor on histamine and leukotriene C_4 release from human leukocytes (Columbo et al). 1993;92:325-33

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Placebos
Aspartame is no more likely than placebo to cause urticaria/angioedema: results of a multicenter, randomized, double-blind, placebo-controlled, crossover study (Geha et al). 1993;92:513-20
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Monoclonal antibody–standardized cat extract immunotherapy: risk-benefit effects from a double-blind placebo study (Alvarez-Cuesta et al). 1994;93:556-7
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The effectiveness of benzyl benzoate and some essential plant oils as laundry additives for killing house dust mites (McDonald and Tovey). 1993;92:771-2 (Brief comm.)
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An approach to immunologic reactions associated with plasma exchange (Apter and Kaplan). 1992;90:119-24 (Rostrum)
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Comparison of platelet-activating factor–induced chemotaxis of normodense and hypodense eosinophils (Little and Casale). 1991;88:187-92
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Rhinoconjunctivitis; *see* **Conjunctivitis, allergic**

Rhinomanometry; *see* **Manometry**

Rhinopharyngolaryngoscopy; *see* **Laryngoscopy**

Rhinopharynx; *see* **Nasopharynx**

Rhinorrhea; *see* **Nose, secretions**

Rhinoscopy; *see* **Endoscopy**

Rhinoviruses

- Analysis of nasal secretions during experimental rhinovirus upper respiratory infections (Igarashi et al). 1993;92:722-31
- Effect of experimental rhinovirus 39 infection on the nasal response to histamine and cold air challenges in allergic and nonallergic subjects (Doyle et al). 1994;93:534-42
- Effect of rhinovirus 39 infection on cellular immune parameters in allergic and nonallergic subjects (Skoner et al). 1993;92:732-43
- Leukocyte responses to experimental infection with human rhinovirus (Thomas et al). 1994;94:1255-62 (Symposium)
- Physiologic abnormalities in the paranasal sinuses during experimental rhinovirus colds (Turner et al). 1992;90:474-8 (Symposium)
- Rhinovirus 39 infection in allergic and nonallergic subjects (Doyle et al). 1992;89:968-78

Rhizomucor

- Allergic *Rhizomucor* sinusitis (Goldstein et al). 1992;90:394-404 (Allergy grand rounds)

Rhizopus

- *Rhizopus*-induced hypersensitivity pneumonitis in a tractor driver (O'Connell et al). 1995;95:779-81 (Brief comm.)

Ribonucleic acid; *see* **RNA, messenger**

Rifamycins

- Anaphylactic reaction to local administration of rifamycin SV (Cardot et al). 1995;95:1-7

Risk factors

- Antecedent features of children in whom asthma develops during the second decade of life (Dodge et al). 1993;92:744-9
- Assessment of risk factors for IgE-mediated sensitization to tetrachlorophthalic anhydride (Liss et al). 1993;92:237-47
- A cluster of anaphylactic reactions in children with spina bifida during general anesthesia: epidemiologic features, risk factors, and latex hypersensitivity (Kelly et al). 1994;94:53-61
- Discussion of risk of scuba diving in individuals with allergic and respiratory diseases (SCUBA Subcommittee). 1995;96:871-3 (Editorial)
- Early childhood risk factors for sensitization at school age (Kuehr et al). 1992;90:358-63
- Effect of allergen avoidance in infancy on allergic manifestations at age two years (Hide et al). 1994;93:842-6
- Effect of environmental molds on risk of death from asthma during the pollen season (Targonski et al). 1995;95:955-61
- Exposure to domestic animals and risk of immunologic sensitization in subjects with asthma (Desjardins et al). 1993;91:979-86
- Follow-up of asthma from childhood to adulthood: influence of potential childhood risk factors on the outcome of pulmonary function and bronchial responsiveness in adulthood (Roorda et al). 1994;93:575-84
- Gender risk for anaphylactoid reaction to radiographic contrast media (Lang et al). 1995;95:813-7
- Guidelines to minimize the risk from systemic reactions caused by immunotherapy with allergenic extracts (AAAI). 1994;93:811-2 (Position statement)
- Immunotherapy: a one-year prospective study to evaluate risk factors of systemic reactions (Tinkelman et al). 1995;95:8-14
- Prospective study of risk factors in natural rubber latex hypersensitivity (Moneret-Vautrin et al). 1993;92:668-77
- Risk assessment in determining systemic reactivity to honeybee stings in sting-threatened individuals (Day et al). 1994;93:691-705
- Sensitization to mite allergens is a risk factor for early and late onset of asthma and for persistence of asthmatic signs in children (Kuehr et al). 1995;95:655-62
- Task Force on Allergic Reactions to Latex. 1993;92:16-8 (Committee report)

Risk management

- Underreporting of anaphylaxis in a community emergency room (Klein and Yocum). 1995;95:637-8 (Brief comm.)

RNA

- Molecular biology and immunology: an introduction (Rodgers and Rich). 1991;88:535-51 (Postgrad. course)

RNA, messenger

- Activation of CD4+ T cells, increased T$_{\mathrm{H}2}$-type cytokine mRNA expression, and eosinophil recruitment in bronchoalveolar lavage after allergen inhalation challenge in patients with atopic asthma (Robinson et al). 1993;92:313-24
- Chronic hyperplastic sinusitis: association of tissue eosinophilia with mRNA expression of granulocyte-macrophage colony-stimulating factor and interleukin-3 (Hamilos et al). 1993;92:39-48
- Detection of interleukin-5 messenger RNA and interleukin-5 protein in bronchial biopsies from asthma by nonradioactive in situ hybridization and immunohistochemistry (Fukuda et al). 1994;94:584-93 (Symposium)
- Expression of interleukin-4 and interleukin-5 mRNA in developing cutaneous late-phase reactions (Vowels et al). 1995;96:92-6
- Expression of transforming growth factors- α and β_1 messenger RNA and product by eosinophils in nasal polyps (Elovic et al). 1994;93:864-9
- IL-4 upregulates FcεRIα-chain messenger RNA in eosinophils (Terada et al). 1995;96:1161-9 (Symposium)
- Isolation and characterization of a recombinant heat shock protein of *Aspergillus fumigatus* (Kumar et al). 1993;91:1024-30
- Kinetics of cell infiltration and cytokine messenger RNA expression after intradermal challenge with allergen and tuberculin in the same atopic individuals (Tsicopoulos et al). 1994;94:764-72
- Localization of histamine *N*-methyltransferase messenger RNA in human nasal mucosa (Okayama et al). 1995;95:96-102
- Passive cutaneous anaphylaxis in mouse skin is associated with local accumulation of interleukin-6 mRNA and immunoreactive interleukin-6 protein (Mican et al). 1992;90:815-24
- Relationships among numbers of bronchoalveolar lavage cells expressing messenger ribonucleic acid for cytokines, asthma symptoms, and airway methacholine responsiveness in atopic asthma (Robinson et al). 1993;92:397-403

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Receiver Operating Characterisic analysis: a useful method for a comparison of the clinical relevance of two in vitro IgE tests (de Blay et al). 1993;92:255-63

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The diagnosis of natural rubber latex allergy (Kelly et al). 1994;93:813-6

Diagnostic laboratory immunology: a subspecialty that encompasses clinical as well as laboratory immunology (Bloch et al). 1991;88:961-3

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Is there a role for cyclosporine in asthma? (Calderón et al). 1992;89:629-36

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Perspectives in β_2-agonist therapy: Vox clamantis in deserto vel lux in tenebris? (McFadden). 1995;95:641-51

A possible role for adhesion molecules in asthma (Calderón and Lockey). 1992;90:852-65

A prospective assessment of the remote practice of allergy: comparison of the diagnosis of allergic disease and the recommendations for allergen immunotherapy by board-certified allergists and a laboratory performing in vitro assays (Nelson et al). 1993;92:380-6

The role of the peak flow meter in the diagnosis and management of asthma (Cross and Nelson). 1991;87:120-8

Sinusitis: a critical need for further study (Druce and Slavin). 1991;88:675-7

Suggested approaches for research protocols involving the potential for life-threatening reactions (Hamilos et al). 1993;91:1101-20

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When to start, when to stop, and what to measure in venom immunotherapy: issues in allergy grand seminar, AAAI Annual Meeting 1990 (Graft et al). 1991;88:409-13

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Rubber; *see also* **Latex**

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Characterization of a monoclonal antibody against latex protein associated with latex allergy (Kurup et al). 1993;92:638-43

Characterization of latex antigens and allergens in surgical gloves and natural rubber by immunoelectrophoretic methods (Mäkinen-Kiljunen et al). 1992;90:230-5

Cross-reacting allergens in natural rubber latex and avocado (Ahlroth et al). 1995;96:167-73

The diagnosis of natural rubber latex allergy (Kelly et al). 1994;93:813-6

Extractable latex allergens and proteins in disposable medical gloves and other rubber products (Yunginger et al). 1994;93:836-42

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Anaphylaxis to measles, mumps, and rubella vaccine mediated by IgE to gelatin (Kelso et al). 1993;91:867-72

Rush Hymenoptera venom; *see* **Venoms**

Rush immunotherapy; *see* **Immunotherapy**

Ryegrass; *see* **Lolium**

S

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An overview of human safety data with neodocromil sodium (Foulds). 1993;92:202-4 (Symposium)

Safety of venom immunotherapy administered by a cluster schedule (Tarhini et al). 1992;89:1198-9 (Brief comm.)

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Salicylazosulfapyridine

Sulfasalazine in the treatment of corticosteroid-dependent chronic idiopathic urticaria (Jaffer). 1991;88:964-5 (Brief comm.)

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Saline solution, hypertonic

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Cross refractoriness between bradykinin and hypertonic saline challenges in asthma (Rajakulasingam et al). 1995;96:502-9

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The usefulness of routine screening for salivary secretory component (Epstein and Baumgarten). 1991;88:356-60

Salmeterol

Bronchodilator and bronchoprotective effects of salmeterol in young patients with asthma (Simons et al). 1992;90:840-5

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Salmeterol—Cont'd

The effect of inhaled salmeterol on methacholine responsiveness in subjects with asthma up to 12 hours (Derom et al). 1992;89:811-5

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Sandoglobulin; *see* **Serum globulins**

Sansum ant; *see* **Ants**

Sarcoidosis

Increased secretion of tumor necrosis factor-alpha, interleukin-1-beta, and interleukin-6 by alveolar macrophages from patients with sarcoidosis (Steffen et al). 1993;91:939-49

Scalp

Atopic dermatitis of the face, scalp, and neck: Type I reaction to the yeast *Pityrosporum ovale*? (Jensen-Jarolim et al). 1992;89:44-51

Schnitzler's syndrome; *see* **Urticaria**

School dust; *see* **Dust**

Schoolchildren; *see* **Child**

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Schools, nursery

Indoor allergen levels in day nurseries (Dornelas de Andrade et al). 1995;95:1158-63

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Altered T cell subpopulations and lymphocytes expressing natural killer cell phenotypes in patients with progressive systemic sclerosis (Frieri et al). 1991;87:773-9

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Scopolamine

Cutaneous responses to anticholinergics: evidence for muscarinic receptor subtype participation (Cavanah and Casale). 1991;87:971-6

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Seasonal allergens; *see* **Allergens**

Seasonal allergic conjunctivitis; *see* **Conjunctivitis, allergic**

Seasonal allergic rhinitis; *see* **Hay fever**

Seasonal rhinoconjunctivitis; *see* **Conjunctivitis, allergic**

Seasons

The effects of season, climate, and air-conditioning on the prevalence of *Dermatophagoides* mite allergens in household dust (Lintner and Brame). 1993;91:862-7

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Secretory IgA; *see* **IgA**

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Similarities in the ultrastructural morphology and developmental and secretory mechanisms of human basophils and eosinophils (Dvorak). 1994;94:1103-34 (Symposium)

Seeds

Allium cepa seeds: a new occupational allergen (Navarro et al). 1995;96:690-3 (Brief comm.)

Generalized urticaria caused by sesame seeds with negative prick test results and without demonstrable specific IgE antibodies (Eberlein-König et al). 1995;96:560-1 (Brief comm.)

Segmental antigen lung challenge; *see* **Bronchial provocation tests**

Self care

A self-management program for adult asthma. Part I: development and evaluation (Kotses et al). 1995;95:529-40

A self-management program for adult asthma. Part II: Cost-benefit analysis (Taitel et al). 1995;95:672-6

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Semen

Local intravaginal desensitization to seminal fluid (Matloff). 1993;91:1230-1 (Brief comm.)

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Sensitivity and specificity

Association of class II sequences encoding DR1 and DQ5 specificities with hypersensitivity to chironomid allergen *Chi t* I (Tautz et al). 1994;93:918-25

Comparison of the sensitivity and precision of four skin test devices (Engler et al). 1992;90:985-91

Precision of prick and puncture tests (Bousquet and Michel). 1992;90:870-3 (Editorial)

Sensitivity and specificity of histamine PC$_{20}$ determination in a random selection of young college students (Cockcroft et al). 1992;89:23-30

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Early childhood risk factors for sensitization at school age (Kuehr et al). 1992;90:358-63

Sensitization, immunologic; *see* **Immunization**

Sensory nerves; *see* **Receptors, sensory**

Sepharose

Separation of *Alternaria* into protein and carbohydrate fractions with phenyl Sepharose (Portnoy et al). 1991;87:789-93

Serine

Mechanisms of neutrophil damage to human alveolar extracellular matrix: the role of serine and metalloproteases (Palmgren et al). 1992;89:905-15

Serodiagnosis

Skin and serologic testing in the diagnosis of latex allergy (Kelly et al). 1993;91:1140-5

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Diagnostic value of recombinant *Aspergillus fumigatus* allergen I/a for skin testing and serology (Moser et al). 1994;93:1-11

Evaluation of the overall degree of sensitization to airborne allergens by a single serologic test: implications for epidemiologic studies of allergy (Matricardi et al). 1994;93:68-79

Serotonin

Analyses of microvascular permeability in response to mediators of immediate hypersensitivity (Keahey et al). 1991;87:586-94

Human neutrophil-derived histamine-releasing activity (HRA-N) causes the release of serotonin but not arachidonic acid metabolites from rat basophilic leukemia cells (Igarashi et al). 1992;89:1085-97

Serum albumin

A comparison of cutaneous testing and ELISA testing for assessing reactivity to ethylene oxide-human serum albumin in hemodialysis patients with anaphylactic reactions (Grammer et al). 1991;87:674-6

Egg yolk α-livetin (chicken serum albumin) is a cross-reactive allergen in the bird-egg syndrome (Szépfalusi et al). 1994;93:932-42

Serum IgE and IgG to formaldehyde-human serum albumin: lack of relation to gaseous formaldehyde exposure and symptoms (Dykewicz et al). 1991;87:48-57

Serum globulins

Rapid infusion of Sandoglobulin in patients with primary humoral immunodeficiency (Schiff et al). 1991;88:61-7

Serum IgE; *see* **IgE**

Serum tryptase

Elevated serum tryptase in exercise-induced anaphylaxis (Schwartz). 1995;95:917-9 (Brief comm.)

Sesame oil

Sesame seed oil anaphylaxis (Chiu and Haydik). 1991;88:414-5 (Brief comm.)

Sesame seeds; *see* **Seeds**

Severe combined immunodeficiency

Establishment of human IgE system in severe combined immunodeficient mice with peripheral blood mononuclear cells from asthmatic children (Chiang et al). 1995;95:69-76

Monoclonal anti-T cell (T12) antibody treatment of graft-versus-host disease in severe combined immunodeficiency: targeting of antibody and activation of complement on $CD8^+$ cytotoxic T cell surfaces (Blomquist et al). 1991;87:1029-33

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The effects of gender on allergen-induced histamine release in ongoing allergic cutaneous reactions (Atkins et al). 1993;91:1031-4

Sex factors

Gender risk for anaphylactoid reaction to radiographic contrast media (Lang et al). 1995;95:813-7

Sexual intercourse; *see* **Coitus**

Sézary syndrome

Sézary syndrome with elevated serum IgE and hypereosinophilia: role of dysregulated cytokine production (Borish et al). 1993;92:123-31

SF-36 Health Status Questionnaire; *see* **Questionnaires**

Sheep's milk; *see* **Milk**

Sheldon Memorial Lecture

Sheldon Memorial Lecture. 1991;88:141-6

Shock, anaphylactic; *see* **Anaphylaxis**

Shock, septic

Evidence of mast cell involvement in a clinical syndrome mimicking toxic shock syndrome (Miles and Mamlok). 1992;89:638-9 (Brief comm.)

Shrimp

Identification and characterization of a 30 kd major allergen from *Parapenaeus fissurus* (Lin et al). 1993;92:837-45

Occupational IgE-mediated sensitization and asthma caused by clam and shrimp (Desjardins et al). 1995;96:608-17

Shrimp allergen; *see* **Allergens**

Shwachman-Diamond syndrome

Shwachman-Diamond syndrome associated with hypogammaglobulinemia and growth hormone deficiency (Kornfeld et al). 1995;96:247-50

Siblings; *see* **Nuclear family**

Sick building syndrome; *see* **Air pollution, indoor**

Signal transduction

IgE and adenosine 5′ triphosphate receptors on immature murine mast cells are functionally linked to signal transduction mechanisms (Rossi and Barrett). 1992;90:765-71

Initial events in FcεRI signal transduction (Scharenberg and Kinet). 1994;94:1142-6 (Symposium)

Positive and negative signals transduced through surface immunoglobulins in human B cells (Mayumi et al). 1994;94:612-9 (Symposium)

Roles of the cytoplasmic domains of the α and β subunits of human granulocyte-macrophage colony-stimulating factor receptor (Muto et al). 1995;96:1100-14 (Symposium)

Signal transduction: mechanisms in basophils (MacGlashan). 1994;94:1146-51 (Symposium)

Signs and symptoms, respiratory

Should we monitor peak expiratory flow rates of record symptoms with a simple diary in the management of asthma? (Malo et al). 1993;91:702-9

Sinopulmonary infection; *see* **Infection**

Sinus surgery; *see* **Paranasal sinuses, surgery**

Sinusitis

Evidence for distinct cytokine expression in allergic versus nonallergic chronic sinusitis (Hamilos et al). 1995;96:537-44

Extrathoracic and intrathoracic airway responsiveness in sinusitis (Bucca et al). 1995;95:52-9

Sinusitis: a critical need for further study (Druce and Slavin). 1991;88:675-7 (Rostrum)

Sinusitis, child

Chronic sinusitis among pediatric patients with chronic respiratory complaints (Nguyen et al). 1993;92:824-30

Sinusitis, complications

Aspergillus brain abscess complicating allergic *Aspergillus* sinusitis (Tsimikas et al). 1994;94:264-7 (Brief comm.)

Complications of sinusitis (Wagenmann and Naclerio). 1992;90:552-4 (Symposium)

Concomitant allergic bronchopulmonary aspergillosis and allergic *Aspergillus* sinusitis with an operated aspergilloma (Bhagat et al). 1993;91:1094-6 (Brief comm.)

Impact of sinusitis in cystic fibrosis (Ramsey and Richardson). 1992;90:547-52 (Symposium)

Mechanisms, diagnosis, and treatment of sinusitis in children and adults: consensus and recommendations. 1992;90:555-6 (Symposium)

Sinusitis, diagnosis

Diagnosis of sinusitis in adults: history, physical examination, nasal cytology, echo, and rhinoscope (Druce). 1992;90:436-41 (Symposium)

Diagnosis of sinusitis in children: emphasis on the history and physical examination (Fireman). 1992;90:433-6 (Symposium)

The diagnosis of sinusitis in infants and children: x-ray, computed tomography, and magnetic resonance imaging (Diament). 1992;90:442-4 (Symposium)

Diagnostic criteria for allergic fungal sinusitis (deShazo and Swain). 1995;96:24-35

Fusarium allergic fungal sinusitis (Wickern). 1993;92:624-5 (Brief comm.)

General discussion: What is sinusitis?. 1992;90:431-2 (Symposium)

Guidelines for the diagnosis of asthma. X. Special considerations. 1991;88:523-34 (Suppl.)

Imaging of chronic sinusitis in adults: x-ray, computed tomography, and magnetic resonance imaging (Zinreich). 1992;90:445-51 (Symposium)

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Mechanisms, diagnosis, and treatment of sinusitis in children and adults: introduction and definition of sinusitis (Shapiro and Rachelefsky). 1992;90:417-8 (Symposium)

Radiographic imaging studies in pediatric chronic sinusitis (Garcia et al). 1994;94:523-30

Sinusitis, drug therapy

Antimicrobial therapy of pediatric patients with sinusitis (Wald). 1992;90:469-73 (Symposium)

Intranasal flunisolide spray as an adjunct to oral antibiotic therapy for sinusitis (Meltzer et al). 1993;92:812-23

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The microbial etiology and antimicrobial therapy of adults with acute community-acquired sinusitis: a fifteen-year experience at the University of Virginia and review of other selected studies (Gwaltney et al). 1992;90:457-62 (Symposium)

Prospects for ancillary treatment of sinusitis in the 1990s (Zeiger). 1992;90:478-95 (Symposium)

Subacute sinusitis: Are antimicrobials necessary? (Dohlman et al). 1993;91:1015-23

Sinusitis, etiology

Allergic *Rhizomucor* sinusitis (Goldstein et al). 1992;90:394-404 (Allergy grand rounds)

The association of individual allergen reactivity with respiratory disease in a national sample: data from the second National Health and Nutrition Examination Survey, 1976-80 (NHANES II) (Gergen and Turkeltaub). 1992;90:579-88

Sinusitis, immunology

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Sinusitis, microbiology

The microbial etiology and antimicrobial therapy of adults with acute community-acquired sinusitis: a fifteen-year experience at the University of Virginia and review of other selected studies (Gwaltney et al). 1992;90:457-62 (Symposium)

Microbiology of acute and chronic sinusitis in children (Wald). 1992;90:452-6 (Symposium)

Sinusitis, pathology
- Anatomic and physiologic considerations in sinusitis (Wagenmann and Naclerio). 1992;90:419-23 (Symposium)
- Asthma and sinusitis (Slavin). 1992;90:534-7 (Symposium)
- Human nasal host defense and sinusitis (Kaliner). 1992;90:424-30 (Symposium)
- The role of allergy in sinusitis in adults (Spector). 1992;90:518-20 (Symposium)
- The role of allergy in sinusitis in children (Furukawa). 1992;90:515-7 (Symposium)
- Sinusitis and asthma: an animal model (Irvin). 1992;90:521-33 (Symposium)

Sinusitis, physiopathology
- Physiologic abnormalities in the paranasal sinuses during experimental rhinovirus colds (Turner et al). 1992;90:474-8 (Symposium)

Sinusitis, prevention and control
- Environmental control and immunotherapy for allergic disease (Evans). 1992;90:462-8 (Symposium)

Sinusitis, surgery
- Current concepts in the surgical management of chronic and recurrent acute sinusitis (Lanza and Kennedy). 1992;90:505-11 (Symposium)
- Current concepts in the surgical management of nasal polyposis (Lanza and Kennedy). 1992;90:543-6 (Symposium)
- Endoscopic approach to sinus disease (Lusk). 1992;90:496-505 (Symposium)
- Surgical modalities other than ethmoidectomy (Lusk). 1992;90:538-42 (Symposium)

Sinusitis, therapy
- Environmental control and immunotherapy for allergic disease (Evans). 1992;90:462-8 (Symposium)
- Mechanisms, diagnosis, and treatment of sinusitis in children and adults: consensus and recommendations. 1992;90:555-6 (Symposium)
- Medical management of nasal polyps and sinusitis (Slavin). 1991;88:141-6 (Sheldon Memorial Lecture)
- Practice parameters for the diagnosis and treatment of asthma. VII. Special conditions (Nicklas and Spector). 1995;96:821-70
- Prospects for ancillary treatment of sinusitis in the 1990s (Zeiger). 1992;90:478-95 (Symposium)
- Therapy for patients with recurrent infections and low serum IgG3 levels (Barlan et al). 1993;92:353-5 (Brief comm.)

Sjögren's syndrome
- Primary Sjögren's syndrome associated with recurrent sinopulmonary infections and bronchiectasis (Robinson and Meyer). 1994;94:263-4 (Brief comm.)

Skin
- The comparative actions and adverse effect profile of single doses of H_1-receptor antihistamines in the airways and skin of subjects with asthma (Wood-Baker and Holgate). 1993;91:1005-14
- Netherton's syndrome: a syndrome of elevated IgE and characteristic skin and hair findings (Smith et al). 1995;95:116-23
- Passive cutaneous anaphylaxis in mouse skin is associated with local accumulation of interleukin-6 mRNA and immunoreactive interleukin-6 protein (Mican et al). 1992;90:815-24
- The skin as a model to study the pathogenesis of IgE-mediated acute and late-phase responses (Charlesworth). 1994;94:1240-50 (Symposium)

Skin, metabolism
- Cutaneous histamine metabolism in chronic urticaria (Smith et al). 1992;89:944-50

Skin chamber fluids; *see* **Body fluids**

Skin eosinophilia; *see* **Eosinophilia**

Skin manifestations
- Activation of the coagulation pathway during ongoing allergic cutaneous reactions in humans (Atkins et al). 1992;89:552-9
- Evaluation of cutaneous responses and lung function from exposure to opiate compounds among ethical narcotics-manufacturing workers (Biagini et al). 1992;89:108-18
- Fibrin formation during ongoing cutaneous allergic reactions: comparison of responses to antigen and codeine (Atkins et al). 1993;91:956-60

Skin mast cells; *see* **Mast cells**

Skin tests; *see also* **Intradermal tests**
- Accelerated cell-mediated immune reactions in penicillin allergy (Warrington et al). 1993;92:626-8 (Brief comm.)
- Allergen skin testing (Board of Directors). 1993;92:636-7 (Position statement)
- Allergen standardization (Platts-Mills and Chapman). 1991;87:621-5 (Editorial)
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- Detection of human IgE to sulfamethoxazole by skin testing with sulfamethoxazoyl-poly-L-tyrosine (Gruchalla and Sullivan). 1991;88:784-92
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Smoke, passive; *see* **Tobacco smoke pollution**

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Sodium cromoglycate; *see* **Cromolyn sodium**
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Solenopsis invicta; *see* **Ants**
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Undifferentiated somatoform idiopathic anaphylaxis: nonorganic symptoms mimicking idiopathic anaphylaxis (Choy et al). 1995;96:893-900
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Occupational allergy caused by urticating hair of Brazilian spider (Castro et al). 1995;95:1282-5 (Brief comm.)
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A cluster of anaphylactic reactions in children with spina bifida during general anesthesia: epidemiologic features, risk factors, and latex hypersensitivity (Kelly et al). 1994;94:53-61
Comparison of latex hypersensitivity among patients with neurologic defects (Konz et al). 1995;95:950-4
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Long-term treatment of hereditary angioedema with attenuated androgens: a survey of a 13-year experience (Cicardi et al). 1991;87:768-73
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Immediate type of allergy in statis growers (Ueda et al). 1992;90:742-8
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Practice parameters for the diagnosis and treatment of asthma. VI. Asthma management (Nicklas and Spector). 1995;96:749-820
Stem cells
Hematopoiesis (Ogawa). 1994;94:645-50 (Symposium)
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Association of ocular cataracts with inhaled and oral steroid therapy during long-term treatment of asthma (Toogood et al). 1993;91:571-9
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Storage mites; *see* **Mites**

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Drug eruptions and isotypic antibody responses to streptokinase after infusions of anisoylated plasminogen-streptokinase complex (APSAC, anistreplase) (Dykewicz et al). 1995;95:1020-8
Use of streptokinase as a recall antigen for lymphocyte proliferation testing in vitro (Youkeles et al). 1991;88:166-71

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Use of streptokinase as a recall antigen for lymphocyte proliferation testing in vitro (Youkeles et al). 1991;88:166-71

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Increased specific IgE production in lungs after the induction of acute stress in rats (Persoons et al). 1995;95:765-70

Subacute sinusitis; *see* **Sinusitis**

Substance K
The effect of oral terfenadine on neurokinin-A–induced bronchoconstriction (Crimi et al). 1993;91:1096-8 (Brief comm.)

Substance P
Airway effects of inhaled bradykinin, substance P, and neurokinin A in sheep (Abraham et al). 1991;87:557-64
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Substance withdrawal syndrome
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Subtractive hybridization; *see* **Hybridization**

Subtropical climate; *see* **Tropical climate**

Succinates
Hydrocortisone sodium succinate does not cross-react with aspirin in aspirin-sensitive patients with asthma (Feigenbaum et al). 1995;96:545-8

Succinylcholine
Generalized allergic reactions during anesthesia (Binkley et al). 1992;89:768-74

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Involvement of mast cells in sudden infant death syndrome (Platt et al). 1994;94:250-6

Sulfadiazine
Management of sulfadiazine allergy in patients with acquired immunodeficiency syndrome (Caballer et al). 1991;88:137-8 (Brief comm.)

Sulfamethoxazole
Detection of human IgE to sulfamethoxazole by skin testing with sulfamethoxazoyl-poly-L-tyrosine (Gruchalla and Sullivan). 1991;88:784-92
Immunochemical analysis of sulfonamide drug allergy: identification of sulfamethoxazole-substituted human serum proteins (Meekins et al). 1994;94:1017-24

Sulfasalazine; *see* **Salicylazosulfapyridine**

Sulfates
Clinical equivalence of a novel non-chlorofluorocarbon-containing salbutamol sulfate metered-dose inhaler and a conventional chlorofluorocarbon inhaler in patients with asthma (Dockhorn et al). 1995;96:50-6

Sulfites
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Guidelines for the diagnosis of asthma. X. Special considerations. 1991;88:523-34 (Suppl.)

Sulfonamides
Immunochemical analysis of sulfonamide drug allergy: identification of sulfamethoxazole-substituted human serum proteins (Meekins et al). 1994;94:1017-24
Sulfonamide-reactive lymphocytes detected at very low frequency in the peripheral blood of patients with drug-induced eruptions (Kalish et al). 1994;94:465-72

Sulfur dioxide
Effects of nedocromil sodium on the bronchomotor response to sulfur dioxide in asthmatic patients (Bigby and Boushey). 1993;92:195-7 (Symposium)
Theophylline mitigates the bronchoconstrictor effects of sulfur dioxide in subjects with asthma (Koenig et al). 1992;89:789-94

Sunflower; *see* **Helianthus**

Superoxide
The effect of platelet-activating factor on the generation of superoxide anion in human eosinophils and neutrophils (Zoratti et al). 1991;88:749-58
The effects of eosinophil-granule major basic protein on lung-macrophage superoxide anion generation (Rankin et al). 1992;89:746-52
IgE produces monocyte superoxide anion release: correlation with CD23 expression (Demoly et al). 1994;93:108-16
Monocytes from patients with atopic dermatitis are primed for superoxide production (Polla et al). 1992;89:545-51

Superoxide dismutase
Reduction of FK-506 requirements by combination with polyethylene glycol superoxide dismutase in orthotopic rat liver transplantation (Rao et al). 1995;95:1276-81

Suppressor cells
Altered T cell subpopulations and lymphocytes expressing natural killer cell phenotypes in patients with progressive systemic sclerosis (Frieri et al). 1991;87:773-9

Suppressor factors, immunologic
Suppression of immune response to *Lol p* I by administration of idiotype (Boutin and Hébert). 1995;95:751-8

Surface immunoglobulins; *see* **Immunoglobulins, surface**

Surgical gloves; *see* **Gloves**

Susceptibility; *see* **Disease susceptibility**

Suspension aerosols; *see* **Aerosols**

Sweden

Allergens in school dust. I. The amount of the major cat (*Fel d* I) and dog (*Can f* I) allergens in dust from Swedish schools is high enough to probably cause perennial symptoms in most children with asthma who are sensitized to cat and dog (Munir et al). 1993;91:1067-74

Allergens in school dust: II. Major mite (*Der p* I, *Der f* I) allergens in dust from Swedish schools (Einarsson et al). 1995;95:1049-53 (Brief comm.)

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Symposium

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Clinical importance of inhibition of mediator release by antihistamines. 1992;90:699-728

Immunosuppression in the treatment of disease (Dickler and Albright). 1994;93:669-76

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New trends in immunopharmacology 1993. 1994;94:565-650

The role of basophils and eosinophils in human disease. 1994;94:1103-326

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Symptomatic asthma; *see* **Asthma** *entries*

Synergism; *see* **Drug synergism**

Synthetic peptides; *see* **Peptides**

Systemic mast cell activation; *see* **Mast cells**

Systemic mast cell disease; *see* **Mastocytosis**

Systemic reactions

Anaphylactic reaction to local administration of rifamycin SV (Cardot et al). 1995;95:1-7

Immunotherapy: a one-year prospective study to evaluate risk factors of systemic reactions (Tinkelman et al). 1995;95:8-14

Systemic reactions from allergen immunotherapy (Stewart and Lockey). 1992;90:567-78 (Editorial)

T

T-cells; *see* **T-lymphocytes**

T-lymphocytes

Acquisition of lymphokine-producing phenotype by CD4+ T cells (Seder). 1994;94:1195-202 (Symposium)

Activated T cells and eosinophilia in bronchoalveolar lavages from subjects with asthma correlated with disease severity (Walker et al). 1991;88:935-42

Activated T-lymphocytes and eosinophils in the bronchial mucosa in isocyanate-induced asthma (Bentley et al). 1992;89:821-9

Activation of CD4+ T cells, increased TH$_2$-type cytokine mRNA expression, and eosinophil recruitment in bronchoalveolar lavage after allergen inhalation challenge in patients with atopic asthma (Robinson et al). 1993;92:313-24

Altered T cell subpopulations and lymphocytes expressing natural killer cell phenotypes in patients with progressive systemic sclerosis (Frieri et al). 1991;87:773-9

Analysis of human T cell responses to the group II allergen of *Dermatophagoides* species: localization of major antigenic sites (O'Hehir et al). 1993;92:105-13

Asp f I CD4+ TH$_2$-like T-cell lines in allergic bronchopulmonary aspergillosis (Knutsen et al). 1994;94:215-21

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Bacterial meningitis: T cell activation and immunoregulatory CD4$^+$ T cell subset alteration (Raziuddin et al). 1991;87:1115-20

Bronchial epithelial cells of patients with asthma release chemoattractant factors for T-lymphocytes (Bellini et al). 1993;92:412-24

Cetirizine inhibits the in vitro and ex vivo chemotactic response of T lymphocytes and monocytes (Jinquan et al). 1995;95:979-86

Cytokine production by mite-specific T cells from donors with mild atopic disease (Looney et al). 1994;93:476-83

Decreased frequency of interferon-γ– and interleukin-2–producing cells in patients with atopic diseases measured at the single cell level (Jung et al). 1995;96:515-27

Detection of decreased cytotoxic effector CD8+ T lymphocytes in atopic dermatitis by flow cytometry (McCoy et al). 1992;90:688-90 (Brief comm.)

Difference in the phenotypes of bronchoalveolar lavage lymphocytes in patients with summer-type hypersensitivity pneumonitis, farmer's lung, ventilation pneumonitis, and bird fancier's lung: report of a nationwide epidemiologic stud (Ando et al). 1991;87:1002-9

The effect of dexamethasone, cyclosporine, and rapamycin on T-lymphocyte proliferation in vitro: comparison of cells from patients with glucocorticoid-sensitive and glucocorticoid-resistant chronic asthma (Haczku et al). 1994;93:510-9

Elevated production of interleukin-4 and interleukin-5 by T cells in a child with idiopathic hypereosinophilic syndrome (Takamizawa et al). 1994;93:1076-8 (Brief comm.)

Eosinophilia in early-stage human immunodeficiency virus infection (Sanchez-Borges et al). 1993;92:494-5 (Brief comm.)

Eosinophils, T-lymphocytes, mast cells, neutrophils, and macrophages in bronchial biopsy specimens from atopic subjects with asthma: comparison with biopsy specimens from atopic subjects without asthma and normal control subjects and relationship to bronchial hyperresponsiveness (Bradley et al). 1991;88:661-74

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- **Thromboxanes**
  - The effect of BAY u 3405, a thromboxane receptor antagonist, on prostaglandin D_2-induced nasal blockage (Johnston et al). 1993;91:903-9
  - Effects of a thromboxane-receptor antagonist, BAY u 3405, on prostaglandin D_2- and exercise-induced bronchoconstriction (Magnussen et al). 1992;89:1119-26
- **Thyroid diseases**
  - Resolution of chronic urticaria in patients with thyroid autoimmunity (Rumbyrt et al). 1995;96:901-5
- **Thyroiditis, autoimmune**
  - Follicular thyroid cells of autoimmune thyroiditis may coexpress ICAM-1 (CD54) and its natural ligand LFA-1 (CD11a/CD18) (Bagnasco et al). 1995;95:1036-43
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- **Ticks**
  - IgE antibodies in tick bite–induced anaphylaxis (Van Wye et al). 1991;88:968-70 (Brief comm.)
- **Timothy grass**; *see* **Grasses**
- **Tissue eosinophilia**; *see* **Eosinophilia**
- **Tobacco smoke pollution**
  - Asthmatic responses to passive cigarette smoke: persistence of reactivity and effect of medications (Menon et al). 1991;88:861-9
  - The decrease in severity of asthma in children of parents who smoke since the parents have been exposing them to less cigarette smoke (Murray and Morrison). 1993;91:102-10
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  - The low prevalence of occupational asthma and antibody-dependent sensitization to diphenylmethane diisocyanate in a plant engineered for minimal exposure to diisocyanates (Bernstein et al). 1993;92:387-96
  - Occupational asthma caused by a prepolymer but not the monomer of toluene diisocyanate (TDI) (Vandenplas et al). 1992;89:1183-8
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  - The diagnosis of sinusitis in infants and children: x-ray, computed tomography, and magnetic resonance imaging (Diament). 1992;90:442-4 (Symposium)
  - Imaging of chronic sinusitis in adults: x-ray, computed tomography, and magnetic resonance imaging (Zinreich). 1992;90:445-51 (Symposium)
  - Radiographic imaging studies in pediatric chronic sinusitis (Garcia et al). 1994;94:523-30
- **Tonsillectomy**
  - Surgical modalities other than ethmoidectomy (Lusk). 1992;90:538-42 (Symposium)
- **Toothpaste**
  - Toothpaste flavor-induced asthma (Subiza et al). 1992;90:1004-6 (Brief comm.)
- **Topical administration**; *see* **Administration, topical**
- **Toxic shock syndrome**; *see* **Shock, septic**
- **Toxins**
  - Interleukin-4 receptor expression by human B cells: functional analysis with a human interleukin-4 toxin, $DAB_{389}IL$-4 (Jabara et al). 1995;95:893-900
- **Trachea**
  - Effect of antigen on the glycoconjugate profile of tracheal secretions and the epithelial glycocalyx in allergic sheep (Mariassy et al). 1994;93:585-93
  - Effects of cytokines on β-adrenoceptor function of human peripheral blood mononuclear cells and guinea pig trachea (Van Oosterhout et al). 1992;90:340-8
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- **Training Program Directors**
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- **Training programs**; *see* **Education**
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  - Activation of the contact system and fibrinolysis in autoimmune acquired angioedema: a rationale for prophylactic use of tranexamic acid (Cugno et al). 1994;93:870-6
- **Tranquilizing agents, major**
  - Rhinorrhea related to antipsychotic drug therapy (Orfan and Kolski). 1993;91:681-2 (Brief comm.)
- **Transcription, genetic**
  - Molecular biology and immunology: an introduction (Rodgers and Rich). 1991;88:535-51 (Postgrad. course)
- **Transforming growth factor alpha**
  - Expression of transforming growth factors- α and β_1 messenger RNA and product by eosinophils in nasal polyps (Elovic et al). 1994;93:864-9
- **Transforming growth factor beta**
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- **Transforming growth factors**
  - Cytokine generation by eosinophils (Moqbel et al). 1994;94:1183-8 (Symposium)
- **Transient hypogammaglobulinemia**; *see* **Hypogammaglobulinemia**
- **Travel**
  - Air travel and patients with pulmonary and allergic conditions (Gong). 1991;87:879-85 (Rostrum)
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  - *Anacardium occidentale* (cashew) pollen allergy in patients with allergic bronchial asthma (Fernandes and Mesquita). 1995;95:501-4
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Urinary retention as a result of administration of terfenadine (Seggev and Fink). 1994;93:1071-2 (Brief comm.)

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V

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Venodilation; *see* **Vasodilation**

Venoms

Allergens in Hymenoptera venom XXIV: the amino acid sequences of imported fire ant venom allergens *Sol i* II, *Sol i* III, and *Sol i* IV (Hoffman). 1993;91:71-8

Allergens in Hymenoptera venom XXV: the amino acid sequences of antigen 5 molecules and the structural basis of antigenic cross-reactivity (Hoffman). 1993;92:707-16

Clinical correlation of the venom-specific IgG antibody level during maintenance venom immunotherapy (Golden et al). 1992;90:386-93

- Deliberate bee sting challenge of patients receiving maintenance venom immunotherapy at 3-month intervals (Goldberg et al). 1994;93:997-1001
- Duration of venom immunotherapy: relationship to the severity of symptoms of initial insect sting anaphylaxis (Reisman). 1993;92:831-6
- Honeybee venom allergy: results of a sting challenge 1 year after stopping successful venom immunotherapy in 86 patients (Müller et al). 1991;87:702-9
- Immediate, late, and delayed skin test responses to *Centruroides vittatus* scorpion venom (Demain and Goetz). 1995;95:135-7 (Brief comm.)
- Immunotherapy with honeybee venom and yellow jacket venom is different regarding efficacy and safety (Müller et al). 1992;89:529-35
- In-hospital sting challenge in insect venom–allergic patients after stopping venom immunotherapy (Haugaard et al). 1991;87:699-702
- Insect-sting challenge in 324 subjects with a previous anaphylactic reaction: current criteria for insect-venom hypersensitivity do not predict the occurrence and the severity of anaphylaxis (van der Linden et al). 1994;94:151-9
- Medical consequences of multiple fire ant stings occurring indoors (deShazo and Banks). 1994;93:847-50
- The natural history of exposure to the imported fire ant (*Solenopsis invicta*) (Tracy et al). 1995;95:824-8
- Possible dual role of anti-idiotypic antibodies in combined passive and active immunotherapy in honeybee sting allergy (Boutin et al). 1994;93:1039-46
- Rate and quantity of delivery of venom from honeybee stings (Schumacher et al). 1994;93:831-5
- A reappraisal of sting challenges: To whom should we offer venom immunotherapy? (Lichtenstein). 1994;94:137-8 (Editorial)
- Rush Hymenoptera venom immunotherapy: successful treatment in a patient with systemic mast cell disease (Engler and Davis). 1994;94:556-9 (Brief comm.)
- Safety of venom immunotherapy administered by a cluster schedule (Tarhini et al). 1992;89:1198-9 (Brief comm.)
- Selection of Hymenoptera venoms for immunotherapy on the basis of patient's IgE antibody cross-reactivity (Hamilton et al). 1993;92:651-9
- Should routine measurements of serum venom-specific IgG be a standard of practice in patients receiving venom immunotherapy? (Reisman). 1992;90:282-4 (Editorial)
- Venom hypersensitivity (Reisman). 1994;94:651-60 (CME article)
- Venom immunotherapy: 10 years of experience with administration of single venoms and 50µg maintenance doses (Reisman and Livingston). 1992;89:1189-95
- Venom immunotherapy: When is it reasonable to stop? (Reisman). 1991;87:618-20 (Editorial)

Venoms, ant; *see* **Ant venoms**

Venoms, bee; *see* **Bee venoms**

Venoms, wasp; *see* **Wasp venoms**

Ventilation
- Building-related illnesses (Seltzer). 1994;94:351-61 (Symposium)
- Indoor air pollution: NO, NO_2, CO, and CO_2 (Alberts). 1994;94:289-95 (Symposium)

Vernal conjunctivitis; *see* **Conjunctivitis, allergic**

Vetch; *see* **Cereals**

Viral hepatitis vaccines
- Adverse reaction to the recombinant hepatitis B vaccine (Hudson et al). 1991;88:821-2 (Brief comm.)

Viral rhinitis; *see* **Rhinitis**

Virus diseases
- Inhaled corticosteroids and severe viral infections (Executive Committee of the American Academy of Allergy and Immunology). 1993;92:223-8 (Position statement)
- Virus-induced airway hyperresponsiveness in the guinea pig can be transferred by bronchoalveolar cells (Folkerts et al). 1992;90:364-72

Vision disorders
- Allergic and immunologic disorders of the eye (Bielory and Frohman). 1992;89:1-18 (CME article)
- Urticarial vasculitis and visual loss (Bielory et al). 1991;88:819-21 (Brief comm.)

Vitreous fibers
- Radon and man-made vitreous fibers (Lockey and Ross). 1994;94:310-7 (Symposium)

Volatile organic compound; *see* **Organic compounds**

W

Wasp venoms
- Clinical and immunologic follow-up of patients who stop venom immunotherapy (Keating et al). 1991;88:339-48
- In-hospital sting challenge in insect venom–allergic patients after stopping venom immunotherapy (Haugaard et al). 1991;87:699-702
- Venom immunotherapy: When is it reasonable to stop? (Reisman). 1991;87:618-20 (Editorial)
- When to start, when to stop, and what to measure in venom immunotherapy: issues in allergy grand seminar, AAAI Annual Meeting 1990 (Graft et al). 1991;88:409-13 (Rostrum)

Wasps
- Immunotherapy with honeybee venom and yellow jacket venom is different regarding efficacy and safety (Müller et al). 1992;89:529-35
- Lack of reproducibility of a single negative sting challenge response in the assessment of anaphylactic risk in patients with suspected yellow jacket hypersensitivity (Franken et al). 1994;93:431-6

Water
- Fatal asthma attack during an inhalation challenge with ultrasonically nebulized distilled water (Saetta et al). 1995;95:1285-7 (Brief comm.)
- Protective activity of inhaled nonsteroidal antiinflammatory drugs on bronchial responsiveness to ultrasonically nebulized water (Blanco et al). 1992;90:833-9

Water temperature
- The role of water temperature and laundry procedures in reducing house dust mite populations and allergen content of bedding (McDonald and Tovey). 1992;90:599-608

Western Association
- The American Academy of Allergy: an historical review (Cohen). 1993;91:7-69

Western blot analysis; *see* **Blotting, Western**

Western red cedar; *see* **Trees**

Wetting agents
- The placebo effect is nothing to sneeze at (Spector). 1992;90:1042-3 (Symposium)

Wheezing; *see* **Respiratory sounds**

Whites
- Guidelines for the diagnosis of asthma. III. Asthma mortality. 1991;88:447-50 (Suppl.)

Wood
- Reassessment of the temporal patterns of bronchial obstruction after exposure to occupational sensitizing agents (Perrin et al). 1991;87:630-9

Work exposure; *see* **Occupational exposure**

Workshop
- American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: core and curriculum outline (Huston). 1992;90:992-5
- American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: educational strategies (Zeitz et al). 1992;90:995-7
- American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: fostering of junior academic allergists/immunologists (Marquardt et al). 1992;90:998-9

Workshop—Cont'd

American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: present status and future issues/directions of allergy and immunology training programs/academic centers (Hilman et al). 1992;90:1001-3

American Academy of Allergy and Immunology Training Program Directors' Retreat, Jan. 10-12, 1992: the growing importance of clinical immunology—impact on the allergy training program and the practice of allergy (Eggleston et al). 1992;90:999-1001

Dust mite allergens and asthma: report of a second international workshop (Platts-Mills et al). 1992;89:1046-60

Workshop summary and guidelines: investigative use of bronchoscopy, lavage, and bronchial biopsies in asthma and other airway diseases. 1991;88:808-14

X

X-linked agammaglobulinemia; *see* **Agammaglobulinemia**

X-rays; *see* **RadiographyYY**

Y

Yeasts

Atopic dermatitis of the face, scalp, and neck: Type I reaction to the yeast *Pityrosporum ovale*? (Jensen-Jarolim et al). 1992;89:44-51

High-frequency binding of IgE to the *Der p* allergen expressed in yeast (Chua et al). 1992;89:95-102

IgE binding to a human profilin–containing fraction caused by contamination with yeast-derived material (Pasmans et al). 1995;96:696-7 (Brief comm.)

Yellow jackets; *see* **Wasps**

Yohimbine

Alterations of adrenoceptors in the nasal mucosa of allergic patients in comparison with nonallergic individuals (van Megen et al). 1991;87:530-40

Z

Zidovudine

Allergy and desensitization to zidovudine in patients with acquired immunodeficiency syndrome (AIDS) (Carr et al). 1993;91:683-5 (Brief comm.)